

SPECIFICATIONS

1. SCOPE:
WORK INCLUDED UNDER THIS SECTION SHALL BE NEW AND CONSIST OF ALL MATERIAL, LABOR, EQUIPMENT AND SERVICE INCIDENTAL TO THE INSTALLATION AND TESTING OF A COMPLETE ELECTRICAL SYSTEM, INCLUDING CONNECTIONS AS HERINAFTER SPECIFIED AND AS SHOWN ON THE DRAWINGS.
2. GENERAL CONDITIONS:

A. ALL ELECTRICAL WORK SHALL BE IN FULL ACCORD WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AND ALL LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS NFPA, APPLICABLE TO THE WORK, AND SHALL COMPLY WITH THE REQUIREMENTS OF THE SERVICE UTILITY COMPANIES, AND PRINCE GEORGES, CO. REQUIREMENTS.

B. THE ELECTRICAL CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED FOR HIS WORK AND SHALL INCLUDE THE COST FOR SAME IN HIS BID.

C. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO EXAMINE THE ARCHITECTURAL, MECHANICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING ADDITIONAL ITEMS TO HIS WORK.

D. ALL MATERIALS SHALL BE NEW AND SHALL BE LISTED BY UNDERWRITERS' LABORATORIES, INC. AS CONFORMING TO THEIR STANDARDS.
3. CUTTING AND PATCHING:
WHERE IT IS NECESSARY TO CUT FLOORS, WALLS OR CEILINGS FOR THE INSTALLATION OF ANY ELECTRICAL WORK, SUCH CUTTING SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR. ALL AFFECTED AREAS SHALL BE PATCHED BY THE ELECTRICAL CONTRACTOR TO MATCH ORIGINAL CONDITION AND APPEARANCE. BEFORE ANY CUTTING OR PATCHING, THE CONTRACTOR SHALL OBTAIN THE APPROVAL OF THE OWNER.
4. WIRING METHODS:

A. ALL CONDUCTORS SHALL BE COPPER. ~~ALUMINUM CONDUCTORS WILL NOT BE PERMITTED.~~ INSULATION SHALL BE 600 VOLT TYPE THWN. MINIMUM WIRE SIZE SHALL BE No. 12 AWG.

B. ALL WIRING SHALL BE INSTALLED IN STEEL CONDUIT OR EMT. MINIMUM CONDUIT SHALL BE 1/2 INCH UNLESS OTHERWISE NOTED.

C. MC TYPE CABLE SHALL BE ACCEPTABLE WHERE PERMITTED BY LOCAL AND NATIONAL ELECTRIC CODES.

D. WAREHOUSE AREA- NO BRANCH CIRCUIT WIRING SHALL BE PERMITTED TO BE INSTALL IN THE BOTTOM OR BELOW THE ROOF JOIST.

E. GROUNDING OF THE ENTIRE ELECTRICAL SYSTEM SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
5. LIGHT FIXTURES:

A. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL LIGHT FIXTURES AS SHOWN ON PLANS AND IN SPECIFICATIONS. UNLESS OTHERWISE NOTED.

B. ELECTRICAL CONTRACTOR SHALL FURNISH, INSTALL AND CONNECT COMPLETE AND READY FOR SATISFACTORY OPERATION, ALL LIGHT FIXTURES, LAMPS, LAMP GUARDS AND LIGHTING CONTROLS. FIXTURES SHALL BE PROVIDED COMPLETE WITH ALL LAMPS, STRAPS, SUPPORTS, HANGERS, ETC. TO INSTALL THEM IN A SATISFACTORY MANNER.
6. GUARANTEE:

A. THE ELECTRICAL CONTRACTOR SHALL GUARANTEE AND SERVICE ALL WORKMANSHIP AND MATERIALS TO BE AS REQUIRED BY PLANS AND SPECIFICATIONS AND AS REPRESENTED BY HIM AND SHALL REPAIR OR REPLACE, AT NO ADDITIONAL COST TO THE OWNER, ANY PART THEREOF WHICH MAY BECOME DEFECTIVE, EXCEPT FOR NORMAL WEAR AND TEAR, WITHIN A PERIOD OF ONE (1) YEAR AFTER THE DATE OF FINAL ACCEPTANCE BY THE ARCHITECT.

B. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR AND PAY FOR ANY DAMAGES CAUSED BY OR RESULTING FROM DEFECTS IN HIS WORK.
7. CONNECTIONS:

A. ELECTRICAL CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS TO LIGHTING AND RECEPTACLE PANELS, LOAD CIRCUITS AND OTHER EQUIPMENT REQUIRED FOR A COMPLETE SYSTEM. COORDINATE EXACT JUNCTION BOX AND POWER REQUIREMENTS FOR NEW EQUIPMENT.
8. CLEANUP:
THIS CONTRACTOR SHALL REMOVE ANY MATERIALS NOT INSTALLED IN HIS WORK WHICH WOULD INTERFERE WITH THE WORK OF OTHER CONTRACTORS AS DIRECTED BY THE OWNER OR ENGINEER. AT THE COMPLETION OF THE WORK, THE ELECTRICAL CONTRACTOR SHALL CLEAN UP AND REMOVE FROM THE PREMISES ALL DEBRIS AND MATERIALS NOT INSTALLED, SO THAT THE PREMISES WILL BE LEFT CLEAN. CLEAN ALL CABINETS AND CONDUITS OF OIL, GREASE AND LEAVE WORK IN OTHERWISE PERFECT CONDITION.
9. UTILITIES
THE INDICATED MAIN INCOMING UTILITY REQUIREMENTS ARE FOR BID AND PERMIT PURPOSES ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING AND COORDINATING THE EXACT REQUIREMENTS WITH THE RESPECTIVE UTILITY COMPANIES.

A. POWER

1) OWNER SHALL PAY FOR ALL POWER CO. FACILITIES CHARGES.

2) CONTRACTOR SHALL PROVIDE AND COORDINATE WITH LOCAL POWER CO.

a) ALL REQUIREMENTS

b) ELECTRICAL LOAD INFORMATION

c) DRAWINGS

B. TELEPHONE

1) CONTRACTOR SHALL PROVIDE AND COORDINATE WITH LOCAL TELEPHONE CO. ALL REQUIRMENTS

2) DRAWINGS

C. CABLE

1) CONTRACTOR SHALL PROVIDE AND COORDINATE WITH LOCAL CABLE CO. ALL REQUIREMENT.

2) DRAWINGS
10. INTERIOR

A. TELEPHONE AND DATA CABLING: SHALL BE PROVIDED BY OWNER EQUIPMENT INSTALLER. THIS SHALL INCLUDE CABLE, CONNECTION AND DEVICE PLATE. CONTRACTOR SHALL PROVIDE EMPTY RACEWAY. STUB OUT ABOVE ACCESSIBLE CEILING FROM WALL OUTLET BOX.

DEMOLITION & REMOVAL NOTES

1. CONTRACTOR SHALL REMOVE ALL EXISTING ELECTRICAL DEVICES INCLUDING ALL WIRING, LIGHTING FIXTURES, RECEPTABLES, PANELS, JUNCTION BOXES, SWITCHES, CONDUIT (NOT CONCEALED) FROM THE PREMISES.
2. VISIT SITE BEFORE FINAL BIDDING TO ASCERTAIN WHAT EXISTING ITEMS ARE TO BE REMOVED AND INCLUDE SAME IN BID.
3. THIS SPACE MUST BE VOID OF ALL EXISTING ELECTRICAL EQUIPMENT BEFORE ANY NEW WORK IS BEGUN.

ELECTRICAL NOTES

1. ELECTRICAL PLANS ARE DIAGRAMMATIC ONLY. REFER TO ARCHITECTURAL PLANS FOR EXACT DIMENSIONS OF STRUCTURE. VERIFY DOOR SWINGS BEFORE INSTALLING LIGHT SWITCHES. LOCATE ON LOCKED SIDE OF DOOR 48" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED.
2. HOMERUNS WITHOUT BRANCH CIRCUIT BREAKER INFORMATION SHALL HAVE 1P, 20A, C/B'S. WHERE CONDUIT SIZE, AND NUMBER AND SIZE OF WIRES IS NOT GIVEN, THE FOLLOWING SHALL APPLY:

– ONE BRANCH CIRCUIT 2 #12, 3/4"¢.

– TWO BRANCH CIRCUITS 3 #12, 3/4"¢.

– THREE BRANCH CIRCUITS 4 #12, 3/4"¢.
3. THE CIRCUIT NUMBERS ARE FOR IDENTIFICATION PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE FOR CORRECTLY PHASING THE CIRCUITS IN THE PANEL. HOMERUNS OF SIMILAR PHASE CIRCUITS MAY BE COMBINED IN ONE CONDUIT WITH A COMMON NEUTRAL.
4. PROVIDE IDENTIFICATION PLATES OF BLACK LAMINATED PLASTIC WITH 1/2" WHITE LETTERS FOR ALL ELECTRICAL EQUIPMENT SUCH AS PANELS, SWITCHES, STARTERS, ETC.
5. WHERE OUTLETS ARE INDICATED IN CLOSE PROXIMITY TO EACH OTHER, PROVIDE GANGED DIVIDED OUTLET BOX WITH COMMON COVERPLATE.
6. ALL RECEPTACLE OUTLET LOCATIONS SHALL BE COORDINATED WITH THE OWNER PRIOR TO PLACEMENT OF SAME.
7. CONTRACTOR SHALL COORDINATE LOCATION AND ELECTRICAL CHARACTERISTICS OF EQUIPMENT TO SUIT ACTUAL EQUIPMENT BEING PROVIDED.
8. PROVIDE ALL ADDITIONAL WIRES REQUIRED FOR SWITCHING AND CONTROL FUNCTIONS INDICATED OR REQUIRED. INCREASE ASSOCIATED CONDUIT SIZE ACCORDINGLY.
9. ~~ALL WORK SHALL BE CONCEALED UNLESS OTHERWISE INDICATED.~~
10. CONTRACTOR SHALL COORDINATE HIS WORK WITH WORK OF OTHER TRADES TO AVOID PHYSICAL INTERFERENCES OR IMPROPER INSTALLATION. FAILURE TO DO SO SHALL BE CAUSE FOR CONTRACTOR TO REMOVE AND REINSTALL HIS WORK AT NO ADDITIONAL EXPENSE TO THE OWNER.
11. BIDDERS SHALL VERIFY LOCAL CODE REQUIREMENTS PRIOR TO BID SUBMITTAL AND SHALL INCLUDE ALL COSTS FOR COMPLETE COMPLIANCE WITH SAME.
12. DO NOT SCALE THE DRAWINGS.
13. CONSULT ARCHITECTURAL PLANS AND DETAILS FOR CONSTRUCTION, HEAD ROOM, ROOM FINISHES, FURRED CEILINGS, EXACT LOCATIONS OF FIXTURES, EQUIPMENT, OUTLETS, ETC.

BASIC MATERIALS AND METHODS

1. THE ELECTRICAL SYSTEM SHALL BE CONDUIT WITH A MINIMUM TRADE SIZE OF 3/4".
2. MOTORS AND VIBRATING EQUIPMENT SHALL BE CONNECTED WITH A SHORT (APPROXIMATELY TWO (2) FEET) LENGTH OF FLEXIBLE METAL CONDUIT OR LIQUID-TIGHT FLEXIBLE METAL CONDUIT WITH EXPOSED EQUIPMENT GROUND TO COMPLY WITH NEC.
3. FITTINGS, COUPLINGS AND ACCESSORIES SHALL BE COMPATIBLE WITH THE CONDUIT MATERIAL. FITTINGS AND COUPLINGS FOR ELECTRIC METALLIC TUBING SHALL BE OF STEEL AND SHALL BE OF THE COMPRESSION TYPE, WITH NYLON THROAT.
4. PULL AND JUNCTION BOXES SHALL BE PROVIDED WHERE INDICATED AND REQUIRED OF THE TYPE AND SIZE FOR THE INSTALLATION OF THE ELECTRICAL SYSTEM AND SHALL BE ACCESSIBLE.
5. OUTLET BOXES SHALL BE GALVANIZED SHEET STEEL OF THE TYPE AND SIZE APPROVED FOR THE INTENDED USE.
6. DEVICE PLATES SHALL BE TYPE 302 SATIN FINISH STAINLESS STEEL. WHERE GANG COMBINATIONS ARE REQUIRED, THE COMBINATIONS ARE TO BE PROVIDED AS A SINGLE PLATE.
7. EMPTY CONDUITS (EC) INSTALL A No.12 THHN OR NYLON PULL WIRE.
8. FLEXIBLE METAL CONDUIT USED FOR CONNECTION OF LIGHTING FIXTURES, RECEPTACLE OUTLETS AND AS OTHERWISE SHOWN ON DRAWINGS, SHALL BE SUPPORTED AND BONDED IN ACCORDANCE WITH N.E.C. ARTICLE 350 AND 518.
9. ALL CIRCUIT CONDUCTORS SHALL BE MARKED OR TAGGED IN THE PANELBOARDS TO IDENTIFY ITEMS SERVED AND THEIR LOCATION.
10. ALL THE BOXES AND CONDUCTORS SHALL BE MARKED TO INDICATE THE VOLTAGE AND CIRCUIT NUMBERS.
11. MOTOR STARTERS AND ACCESSORIES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND WITH THE N.E.C. COORDINATE THE MOTOR FOR PROPER ROTATION AND PROVIDE OVERLOAD THERMAL UNITS OF PROPER RATING.

PANELBOARD NOTES

1. ALL PANEL BOARDS SHALL BE NEW AND SHALL BE PROVIDED WITH COPPER BUSSES S/N AND EQUIPMENT GROUND BUS.
2. PANELBOARDS SHALL BE EQUIPPED WITH QUICK REMOVAL DOORS, MANUFACTURER'S NAME PLATE WITH CHARACTERISTICS AND ALL KEYED ALIKE.
3. CONTRACTOR SHALL VERIFY MOUNTING OF ALL PANELBOARDS PRIOR TO RELEASE FOR FABRICATION.
4. PANELBOARDS SHALL BE SUITABLE FOR FLUSH AND/OR SURFACE MOUNTING.
5. PANELBOARDS SHALL BE PROVIDED WITH A TYPEWRITTEN DIRECTORY. HANDWRITTEN IS NOT ACCEPTABLE.
6. PANELBOARDS SHALL BE PROVIDED WITH PHENOLIC PLASTIC ETCHED NAMEPLATES WITH THE FOLLOWING:

1) PANEL DESIGNATION

2) PANEL SOURCE OF SUPPLY WITH CIRCUIT NUMBER

3) PANEL FEEDER SIZE
7. CONTRACTOR SHALL CHECK ALL PANELBOARD BUSSES FOR UNBALANCED CONDITIONS AND BALANCE PANEL BETWEEN PHASES AS CLOSE AS POSSIBLE. SUBMIT AMPERE READING FOR EACH PANELBOARD TO ELECTRICAL ENGINEER FOR REVIEW AND APPROVAL.
8. FAULT CURRENT RATING

a) MAIN SERVICE 22 K

b) PANEL BOARD 22 K U. O. N.

LIGHTING FIXTURE NOTES

1. PROVIDE LIGHTING FIXTURES INSTALLED IN LOCATIONS AS SHOWN ON ARCHITECTURAL REFLECTIVE CEILING PLANS
2. IF MOUNTING HEIGHTS FOR WALL FIXTURES ARE NOT SHOWN, COORDINATE WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.
3. NOT USED
4. CONTRACTOR SHALL PROVIDE ALL PLASTER RINGS, PLASTER FRAMES, TRIM RINGS, SLOPE ADAPTERS, ACCESSORIES AND ASSOCIATED MATERIALS FOR A COMPLETE INSTALLATION FOR ALL FIXTURE TYPES AT NO ADDITIONAL COST TO THE OWNER.
5. PROVIDE FOR NEW LIGHTING THE FOLLOWING:

– FLUORESCENT BALLAST (T8) SHALL BE ENERGY SAVING ELECTRONIC 10% THD.

– FLUORESCENT BALLAST (PL) SHALL BE ENERGY SAVING ELECTRONIC TYPE.

– ALL T8 32 WATT OCTRON FLUORESCENT FIXTURES SHALL BE WARM WHITE SP-35K


– ALL PL LAMPS SHALL BE RATED 35K.

– INCANDESCENT LAMPS SHALL BE RATED 130 VOLTS.
6. ALL EMERGENCY LIGHTING SHALL BE CONNECTED AHEAD OF THE LIGHTING SWITCH TO COMPLY WITH NEC ARTICLE 7-12 (e) UNIT EQUIPMENT. THE BRANCH CIRCUIT BREAKER SERVING THE BRANCH CIRCUITS WITH UNIT EQUIPMENT SHALL BE PROVIDED WITH A BREAKER GUARD.
7. COORDINATE THE LOCATION OF LIGHTING FIXTURES TO ACCOMMODATE THE MECHANICAL AND PLUMBING INSTALLATION

ELECTRICAL/ MECHANICAL/ PLUMBING COORDINATION

ELECTRICAL CONTRACTOR SHALL OBTAIN FROM MECHANICAL/ PLUMBING CONTRACTORS WITHIN 30 DAYS OF RECEIPT OF CONTRACT A COMPLETE SET OF MECHANICAL EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS. THE ELECTRICAL SHOP DRAWING SHALL BE SUBMITTED SHOWING ALL REQUIRED ELECTRICAL CONNECTIONS, MINIMUM CIRCUIT AMPS, WIRE SIZE, OVER CURRENT PROTECTION AND CONNECTION TYPES AS A RESULT OF THE MECHANICAL/ PLUMBING COORDINATION.

SYMBOLS LIST

- PENDANT CEILING OUTLET FOR A FLUORESCENT LIGHTING FIXTURE.
- CEILING OUTLET FOR A FLUORESCENT LIGHTING FIXTURE.
- CEILING OUTLET FOR A LIGHTING FIXTURE.
- WALL OUTLET FOR A WALL MOUNTED LIGHTING FIXTURE
- CEILING, WALL EXIT LIGHTING FIXTURE-SINGLE FACE - WITH INTEGRAL BATTERY - CEILING OR WALL MOUNTED - ARROWS INDICATE DIRECTION - LED TYPE.
- SINGLE POLE FLUSH TOGGLE SWITCH +48" AFF
- 3 AND 4-WAY FLUSH TOGGLE SWITCH. +48" AFF
- THERMAL MOTOR SWITCH-SIZE AS REQUIRED.
- LUTRON DIMMER - 2000 WATT RATING +48" AFF UNLESS NOTED OTHERWISE
- WALL OUTLET WITH A DUPLEX RECEPTACLE - 2P, 3W, 125V, 20 AMP, GROUNDING TYPE AT 18" A.F.F.
- DUPLEX RECEPTACLE MOUNTED 48" AFF
- DUPLEX RECEPTACLE WITH GROUND FAULT INTERRUPTER PROTECTION LEVITON 8599-I.
- ISOLATED GROUND DUPLEX RECEPTACLE 18" A.F.F.
- VOICE/DATA WALL OUTLET (+18" AFF U.O.N.) WITH ONE INCH EMPTY CONDUIT W/ PULL STRING STUBBED ABOVE CEILING. -STRING SHALL BE TAGGED FOR IDENTIFICATION PROVIDE PROPER TELEPHONE/DATA CABLING BACK TO TELEPHONE MAIN SPACE.
- ISOLATED, INSULATED GROUND FOR I.G. RECEPTS.
- CONCEALED BRANCH CIRCUIT WIRING IN WALLS OR ABOVE CEILING-CROSSMARKS AND NUMERALS INDICATE NUMBER AND AWG SIZE OF CONDUCTORS RESPECTIVELY- 2#12 + EG IS IMPLIED WHEN RUN IS UNMARKED.
- CONCEALED WIRING IN SLAB.
- HOMERUN WIRING TO DESIGNATED PANELBOARD-NUMERALS INDICATE CIRCUIT NUMBERS.
- MOTOR CONNECTION.
- SAFETY SWITCH: FSS FUSIBLE, NFSS--NONFUSIBLE.
- MOTOR STARTER +60" AFF.- FURNISHED UNDER MECHANICAL WORK. INSTALLED AND FINAL CONNECTED UNDER ELECTRICAL WORK.
- UNLESS OTHERWISE NOTED.
- FIRE ALARM STRIKING STATION
- 75 AV AUDIO/VISUAL FIRE ALARM DEVICE (STROBE/HORN) - NUMERAL INDICATES STROBE CANDELA RATING.
- 75 V VISUAL FIRE ALARM DEVICE (STROBE ONLY) - NUMERAL INDICATES STROBE CANDELA RATING.
- S PHOTOELECTRIC SMOKE DETECTOR
- NOTE


1. THE LETTERS NEXT TO EACH LIGHTINGS FIXTURE INDICATES LIGHTING FIXTURE TYPE SHOWN ON LIGHTING FIXTURE SCHEDULE.

MECHANICAL/ELECTRICAL COORDINATION REQUIREMENTS

MECHANICAL CONTRACTOR WITHIN 20 DAYS OF RECEIPT OF CONTRACT TO PROVIDE TO THE ELECTRICAL CONTRACTOR A COMPLETE SET OF MECHANICAL EQUIPMENT SHOP DRAWINGS FOR ALL MECHANICAL EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS OR POWER. SHOP DRAWINGS SHALL SHOW ALL REQUIRED ELECTRICAL CONNECTIONS, MINIMUM CIRCUIT AMPS, WIRE SIZES, OVER CURRENT PROTECTION, CONNECTION TYPES AND ANY OTHER INFORMATION REQUIRED FOR THE PROPER EQUIPMENT INSTALLATION AND OPERATION.

MECHANICAL AND ELECTRICAL CONTRACTORS SHALL COORDINATE THIS INFORMATION AND PREPARE A CONNECTION SCHEDULE FOR SUBMISSION AND REVIEW BY ENGINEER BEFORE PROCEEDING WITH WORK.


PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM DULY LICENSED PROFESSIONAL ENGINEER UNDER LAWS OF THE STATE OF MARYLAND, LICENSE NO. 77541. EXPIRATION DATE: 03/30/2026.



HURST & ASSOCIATES
CONSULTING ENGINEERS
308 HILLWOOD AVE.
FALLS CHURCH, VA. 22046
(703) 534-7872

NOTE:
THE CONSTRUCTION OF THIS PROJECT REQUIRES THE CONTRACTOR TO COORDINATE WORK SHOWN ON THIS DRAWING WITH THAT OF ALL OTHER TRADES. IN ADDITION ALL PIPING, CONDUITS, DUCTWORK, ETC. ARE TO BE INSTALLED WITHIN THE JOISTS / GIRDERS AND TO MAINTAIN THE HEADROOM REQUIRED. CLEARANCES USED: THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CHANGES RESULTING FROM CONFLICTS WITH OTHER TRADES AND WORK. IN THE EVENT OF ANY CONFLICTS THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER OR THEIR REPRESENTATIVE IN WRITING FOR CLARIFICATION BEFORE PROCEEDING.

DRAWING NO.
E1.1



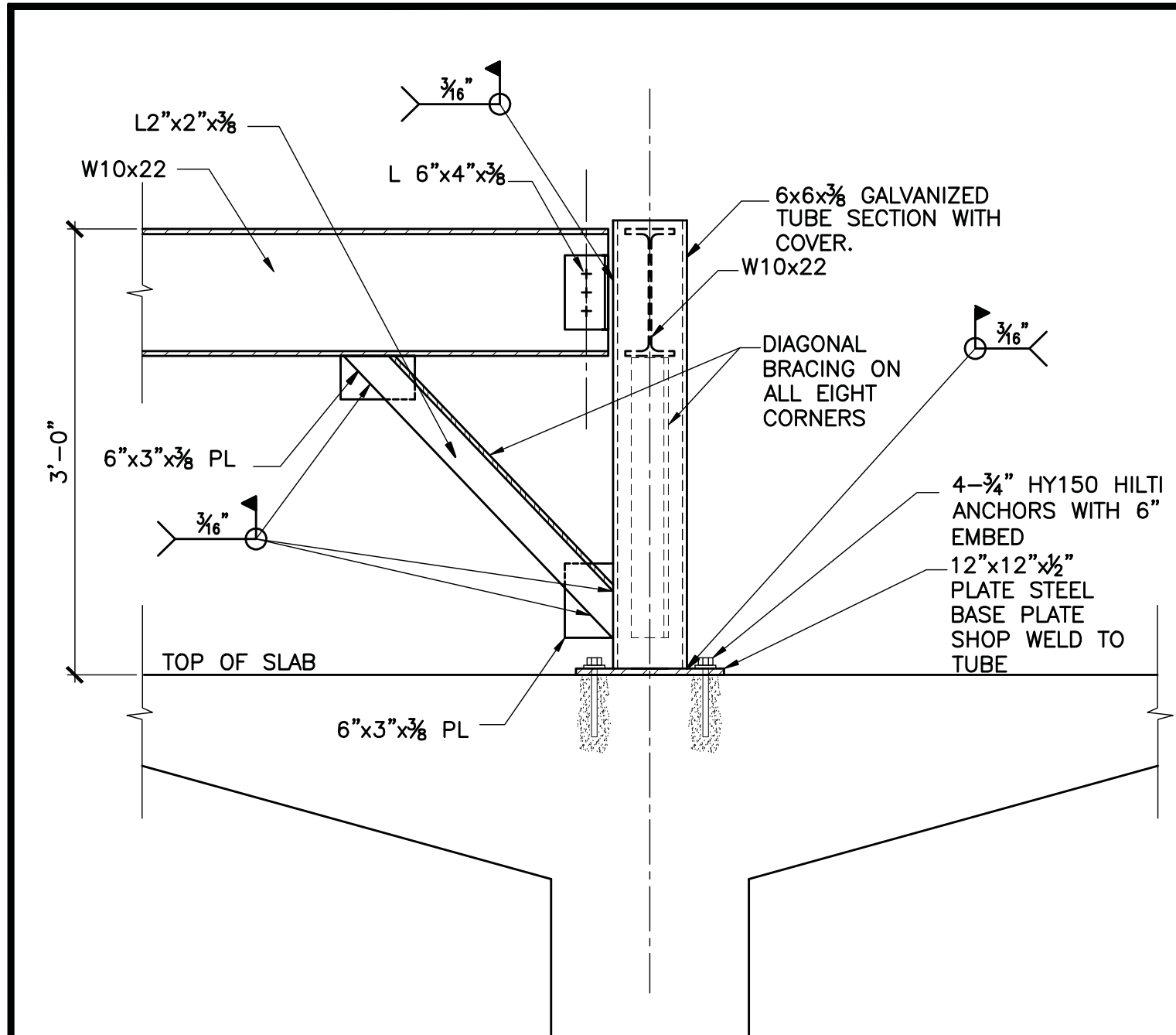
GTMARCHITECTS

7735 OLD GEORGETOWN ROAD
SUITE 700
BETHESDA, MD 20814
(240)333-2000
(240)333-2001 FAX

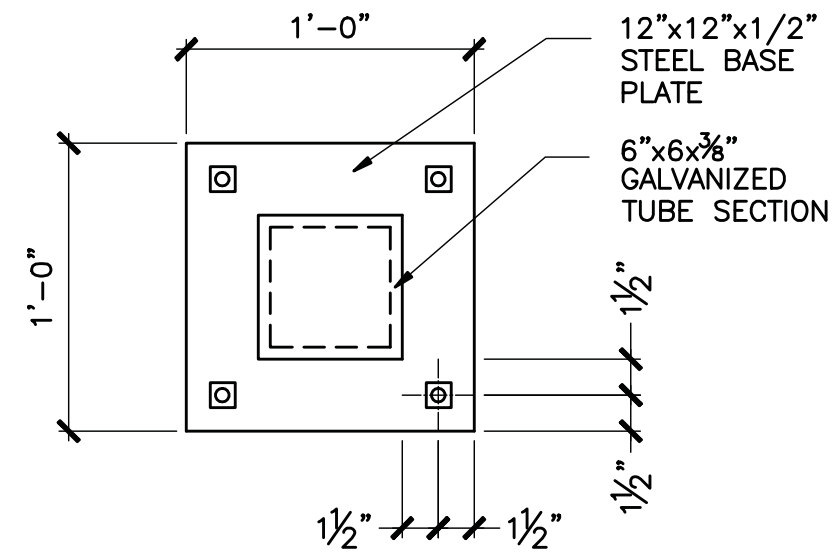
25 CRESCENT ROAD
GREENBELT, MD 20710
ELECTRICAL
COVER SHEET

CITY OF GREENBELT
GREENBELT THEATER
RENOVATION

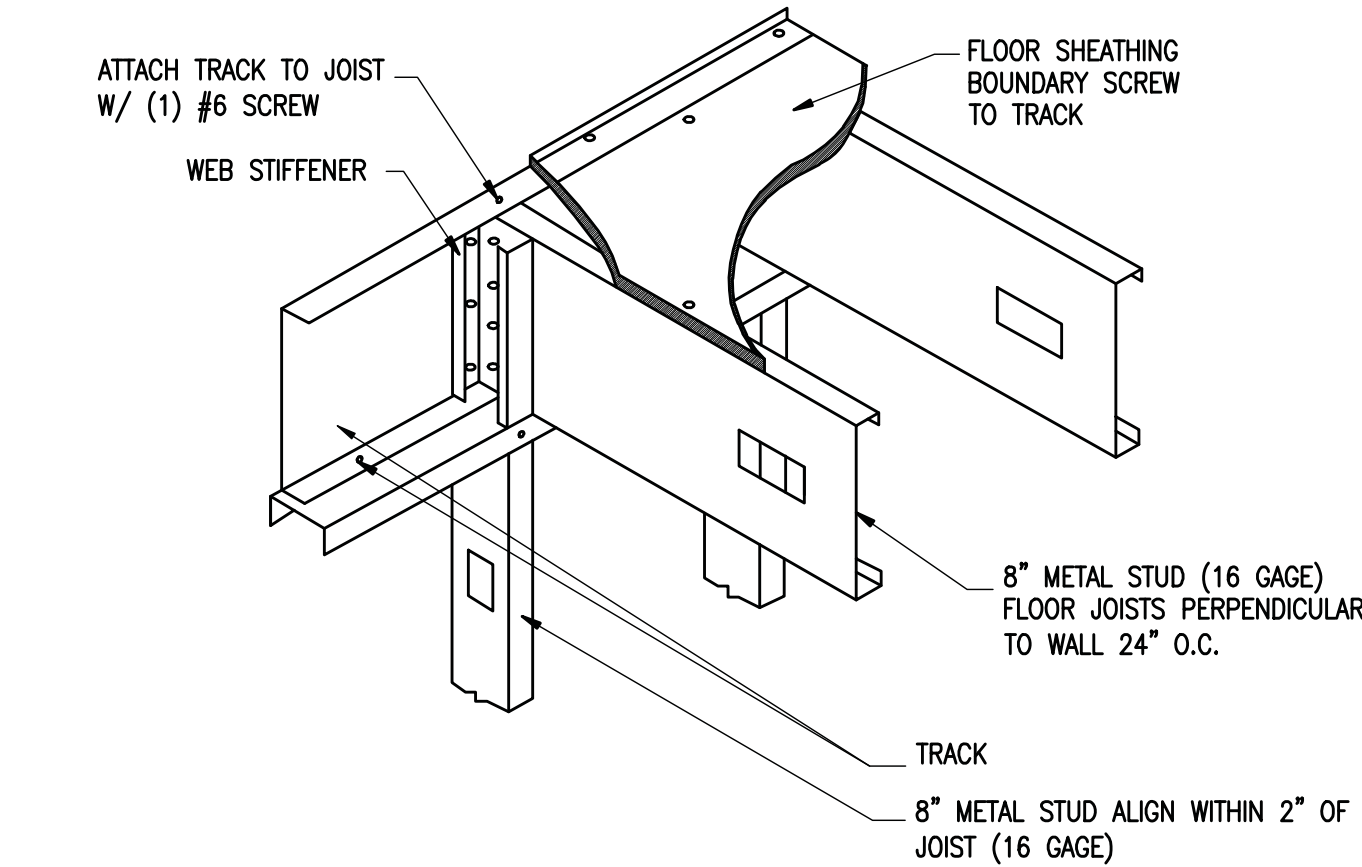
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ISSUE FOR PERMIT	01.22.07
PERMIT COMMENTS	11.03.08
BID SET	04.08.09
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CHECKED BY:	
SCALE: NONE	
DATE: 08/03/05	
PROJECT NO. 03.0299	
DRAWING NO.	



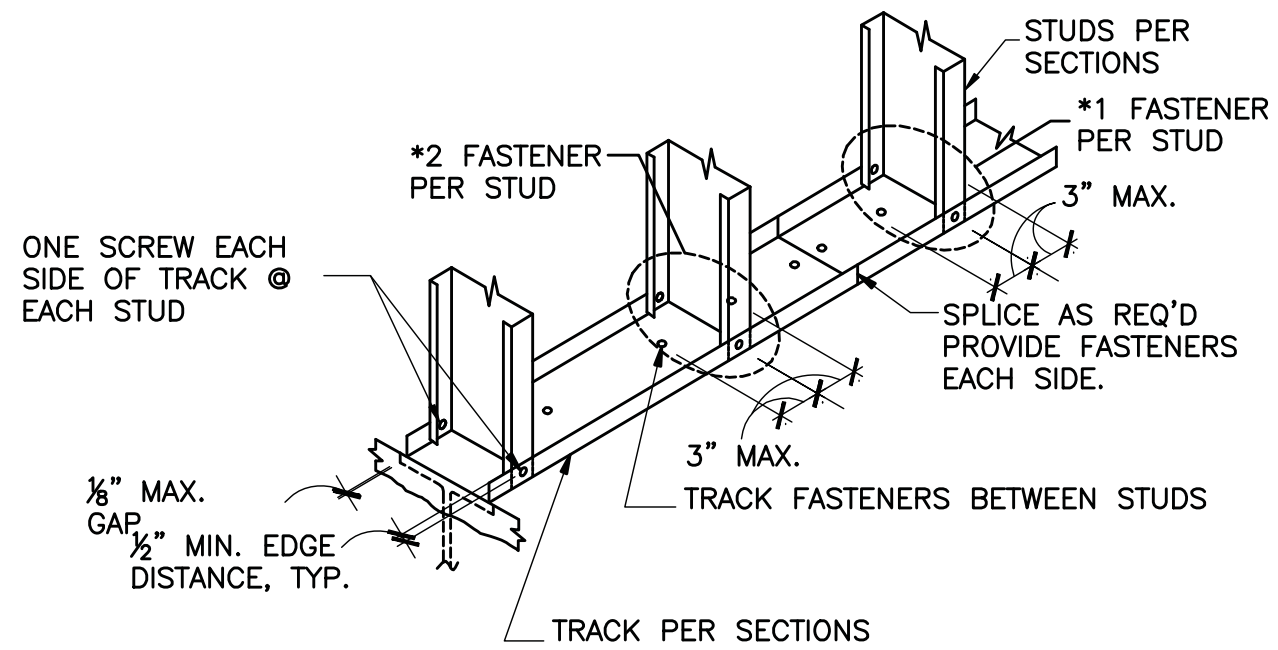
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SCALE 1"=1'-0"



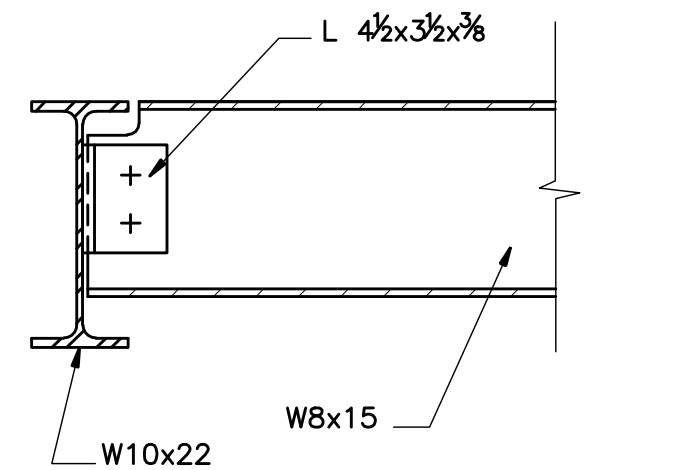
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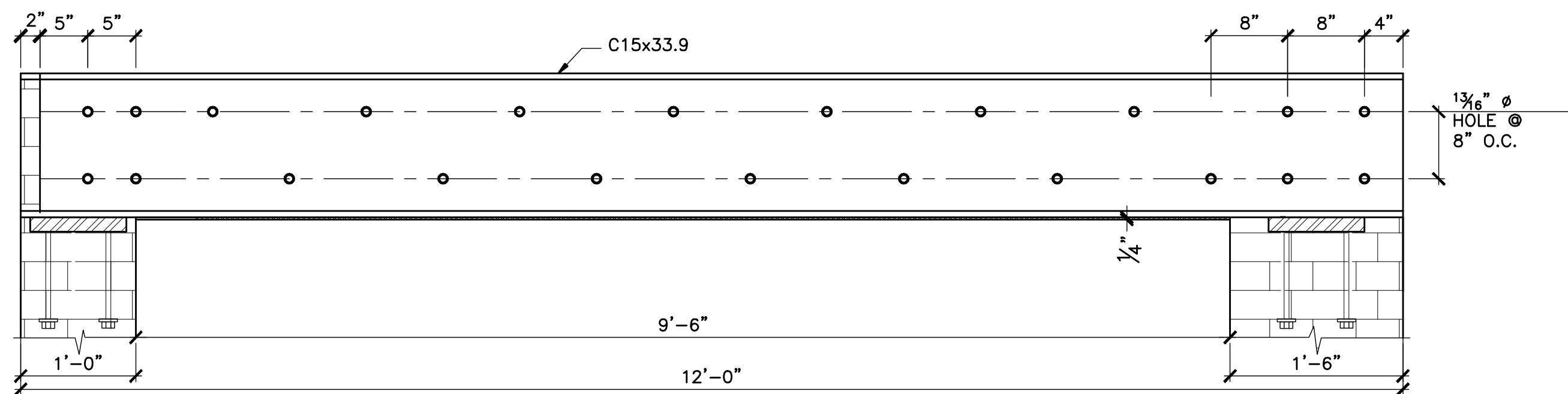
CEILING FRAMING DETAIL



TYPICAL TRACK TO STUD CONNECTION DETAIL



SECTION 2
SCALE 1/2"=1'-0"



WALL OPENING REINFORCEMENT
SCALE 1"=1'-0"

GENERAL NOTES

DESIGN LOADS

THE FOLLOWING DESIGN LIVE LOADS HAVE BEEN USED, AS SPECIFIED IN INTERNATIONAL BUILDING CODE 2003, CHAPTER 16.

LIVE LOAD (SECTION 1607)
PROJECTION AND CONTROL ROOMS50 PSF

ROOF LIVE LOAD (SECTION 1607.11.2) OR MINIMUM MD'. REQUIREMENT, WHICHEVER CONTROLS.....30 LBS./SQ. FT.

ROOF SNOW LOAD (SECTION 1608). BASED ON ASCE 7-02.

$P_g = 30.0$ PSF
 $C_e = 1.1$
 $I_s = 1.1$
 $C_t = 1.0$
REQUIRED $P_f = 0.7 \times 1.1 \times 1.1 \times 30 = 23$ PSF.

ADDITIONAL LOADS DUE TO SNOW DRIFTS AS PER PROVISIONS OF ASCE 7-02 HAVE BEEN CONSIDERED WHERE APPLICABLE.

WIND LOAD (SECTION 1609).
BASIC WIND SPEED.....90 MPH
WIND DIRECTIONALITY FACTOR.....0.85
WIND LOAD IMPORTANCE FACTOR.....1.10
WIND EXPOSURE CATEGORY.....EXPOSURE B.

LATERAL LOADS AGAINST BUILDING WALLS DUE TO EARTH PRESSURE ARE ASSUMED TO BE 45 LBS PER SQ. FT. PER FT. DEPTH.

STRUCTURAL STEEL

STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS". ALL WIDE FLANGE BEAMS & CHANNELS SHALL CONFORM TO ASTM A572 OR A992, GRADE 50 (FY = 50 KSI). STEEL PIPE SHALL CONFORM TO ASTM A53, GRADE B. STEEL TUBE SHALL CONFORM TO ASTM A500, GRADE B. ALL OTHER STEEL SHALL CONFORM TO ASTM A36 (FY = 36 KSI).

BOLTED, WELDED AND COMBINATION CONNECTIONS SHALL BE DETAILED IN ACCORDANCE WITH "FRAMED BEAM CONNECTIONS" USING TWO WEB ANGLES AS SHOWN IN THE LATEST EDITION OF THE AISC "MANUAL OF STEEL CONSTRUCTION" (ALLOWABLE STRESS DESIGN).

SEATED CONNECTIONS SHALL BE DETAILED IN ACCORDANCE WITH "SEATED BEAM CONNECTIONS" AS SHOWN IN THE LATEST EDITION OF THE AISC "MANUAL OF STEEL CONSTRUCTION", AND MAY BE USED TO CONNECT STEEL JOISTS TO COLUMN FLANGES OR STEEL BEAMS TO GIRDER AND GIRDER TO COLUMN. PROVIDE WELDED STABILIZER PLATES OR ANGLES AT TOP OF BEAMS AT ALL SEATED CONNECTIONS.

STEEL CONNECTIONS AT ENDS OF MEMBERS SHALL BE DESIGNED (FOR THE REACTIONS NOTED ON THE DRAWINGS) FOR THE FRACTION OF THE "ALLOWABLE UNIFORM LOAD" AS GIVEN IN THE AISC MANUAL (W_{CL}/2) FOR THE MEMBER, THE SPAN AND GRADE OF STEEL.

SHOP DRAWINGS

THE GENERAL CONTRACTOR (OR CONSTRUCTION MANAGER) SHALL SUBMIT SHOP DRAWINGS FOR ALL STRUCTURAL ELEMENTS SHOWN ON THE CONTRACT DOCUMENTS FOR APPROVAL (ONE REPRODUCIBLE PLUS NOT MORE THAN TWO PRINTS). THE STRUCTURAL ENGINEER WILL NOT BE RESPONSIBLE FOR THE STRUCTURAL CERTIFICATION AND DESIGN OF THE PROJECT IF THE GENERAL CONTRACTOR FAILS TO OBTAIN APPROVAL OF THE SHOP DRAWINGS. THE GENERAL CONTRACTOR SHALL INFORM THE STRUCTURAL ENGINEER IN WRITING CONCERNING DEVIATIONS AND/OR OMISSIONS FROM THE CONTRACT DOCUMENTS AT THE TIME OF SHOP DRAWING SUBMISSION. THE GENERAL CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS AND SHALL MAKE ALL CORRECTIONS HE DEEMS NECESSARY BEFORE SUBMISSION. THE GENERAL CONTRACTOR SHALL STATE ON THE SHOP DRAWINGS THAT CONTRACT DOCUMENT REQUIREMENTS HAVE BEEN MET AND THAT ALL DIMENSIONS, CONDITIONS AND QUANTITIES HAVE BEEN REVIEWED AND VERIFIED AS SHOWN AND/OR CORRECTED ON THE SHOP DRAWINGS.

COLD-FORMED LIGHT STEEL FRAMING

DESIGN OF FRAMING MEMBERS SHALL CONFORM TO AISI SPECIFICATION FOR DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE DESIGN AND DETAILING OF ALL STRUCTURAL MEMBERS AND CONNECTIONS IN CONFORMANCE WITH THE GENERAL LAYOUT, PROPERTIES AND BASIC MEMBER SIZES SPECIFIED.

STRUCTURAL STUDS, JOISTS, BRIDGING AND ACCESSORIES SHALL HAVE A MINIMUM YIELD STRENGTH OF 50,000 PSI FOR 16 GAGE AND THICKER MATERIALS, AND 33,000 PSI FOR MATERIALS THINNER THAN 16 GAGE.

MISCELLANEOUS STEEL

MISCELLANEOUS STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS", AND SHALL BE ASTM A36. BOLTS SHALL BE HIGH STRENGTH 3/4" DIAMETER CONFORMING TO ASTM A325. WELDING SHALL BE DONE ONLY BY CERTIFIED WELDERS. WELD IN ACCORDANCE WITH THE AWS "STANDARD CODE FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION". STRUCTURAL STEEL SURFACES CAST INTO CONCRETE SHALL BE UNPAINTED.

SUBMIT STRUCTURAL STEEL SHOP DRAWINGS SHOWING COMPLETE DIMENSIONS AND DETAILS FOR APPROVAL PRIOR TO FABRICATION. THE STRUCTURAL STEEL SUBCONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING, VERIFICATION, AND FOR COORDINATION OF DIMENSIONS AND DETAILS WITH THE STRUCTURAL AND OTHER PORTIONS OF THE CONTRACT DRAWINGS. THE STRUCTURAL CONTRACT DRAWINGS SHALL NOT BE REPRODUCED AS SHOP DRAWINGS UNLESS THE STRUCTURAL ENGINEER'S APPROVAL IS OBTAINED IN WRITING.

LATERAL BRACING OF STRUCTURAL ELEMENTS

PROVIDE ADEQUATE BRACING AND SHORING FOR BASEMENT, RETAINING AND PIT WALLS. BRACE BASEMENT AND PIT WALLS UNTIL SUPPORTING FLOORS ABOVE ARE IN PLACE AND HAVE ATTAINED DESIGN STRENGTH. DO NOT BACKFILL WALLS UNTIL AFTER FLOORS AT THE TOP AND BASE OF THE WALLS ARE IN PLACE. WHERE BACKFILL IS REQUIRED ON BOTH SIDES OF A WALL, BACKFILL BOTH SIDES SIMULTANEOUSLY WITH THE GRADE DIFFERENCE NOT TO EXCEED 2'-0" AT ANY TIME.

LATERALLY BRACE BUILDING WALLS IN AN APPROVED MANNER AT A MAXIMUM HORIZONTAL SPACING OF 8'-0" O.C. (8'-0" O.C.) BRACING SHALL REMAIN IN PLACE UNTIL ROOF OR FLOOR MEMBERS HAVE BEEN SECURELY ANCHORED TO THE WALL.

PROVIDE ADEQUATE BRACING AND GUY-WIRING FOR STEEL FRAME AND MEMBERS DURING STEEL ERECTION AND CONCRETE WORK ON DECK. STEEL FRAME SHALL BE PLUMB WITHIN AISC TOLERANCES AND PROJECT SPECIFICATION REQUIREMENTS.

WALLS SUPPORTED BY OR CONNECTED TO STEEL FLOOR MEMBERS SHALL NOT BE PLACED UNTIL PERMANENT ANCHORAGE AND BRACING SYSTEMS HAVE BEEN INSTALLED, AND UNTIL CONCRETE WORK FOR FLOOR DECKS IS COMPLETED. WALLS AND PARAPETS SUPPORTED BY OR CONNECTED TO STEEL ROOF BEAMS SHALL NOT BE PLACED UNTIL ROOF DECK INSTALLATION IS COMPLETE.

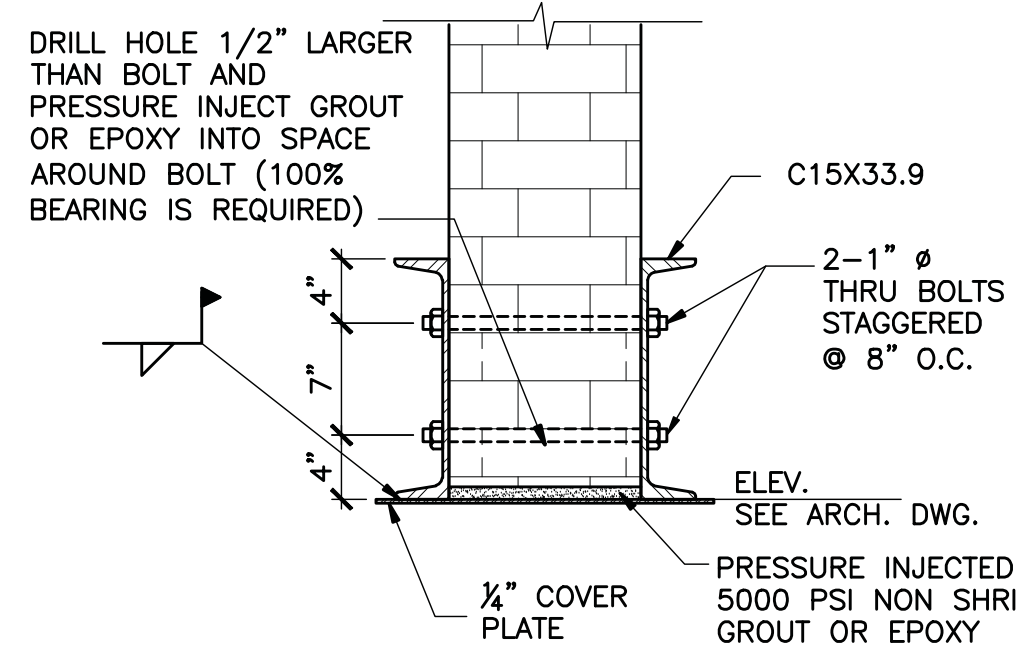
OPENINGS AND PIPE SLEEVES

SIZE AND LOCATION OF ALL OPENINGS SHALL BE COORDINATED WITH ARCHITECTURAL, ELECTRICAL, MECHANICAL AND PLUMBING DRAWINGS. FORM OPENINGS AND PROVIDE PIPE SLEEVES WHEN POURING CONCRETE. HOLES LARGER THAN 2" IN DIAMETER SHALL NOT BE CUT INTO SLABS WITHOUT PERMISSION OF THE STRUCTURAL ENGINEER. ARRANGE REINFORCING AROUND OPENINGS AS SHOWN IN TYPICAL DETAILS. EMBEDDED PIPES OR CONDUITS SHALL BE SPACED AT LEAST THREE DIAMETERS ON CENTERS, UNLESS OTHERWISE NOTED. EXCESSIVE CROSSING OVER OF CONDUITS IN SLABS WILL NOT BE PERMITTED. PIPE SLEEVES SHALL NOT BE SPACED CLOSER THAN 8" CLEAR FROM ANY COLUMN UNLESS NOTED ON DRAWINGS. PLACE SLAB BARS TO CLEAR SLEEVES AND MAINTAIN 1 1/2" CLEAR SPACING BETWEEN BARS. WHERE SLEEVES ARE CLOSELY SPACED IN A GROUP, THE GROUP SHALL BE TREATED AS AN OPENING AND REINFORCED ACCORDINGLY. WHERE FLOORS ARE PENETRATED BY OPENINGS, SEAL THE OPENINGS TO MAINTAIN THE INTEGRITY OF FIRE RATING.

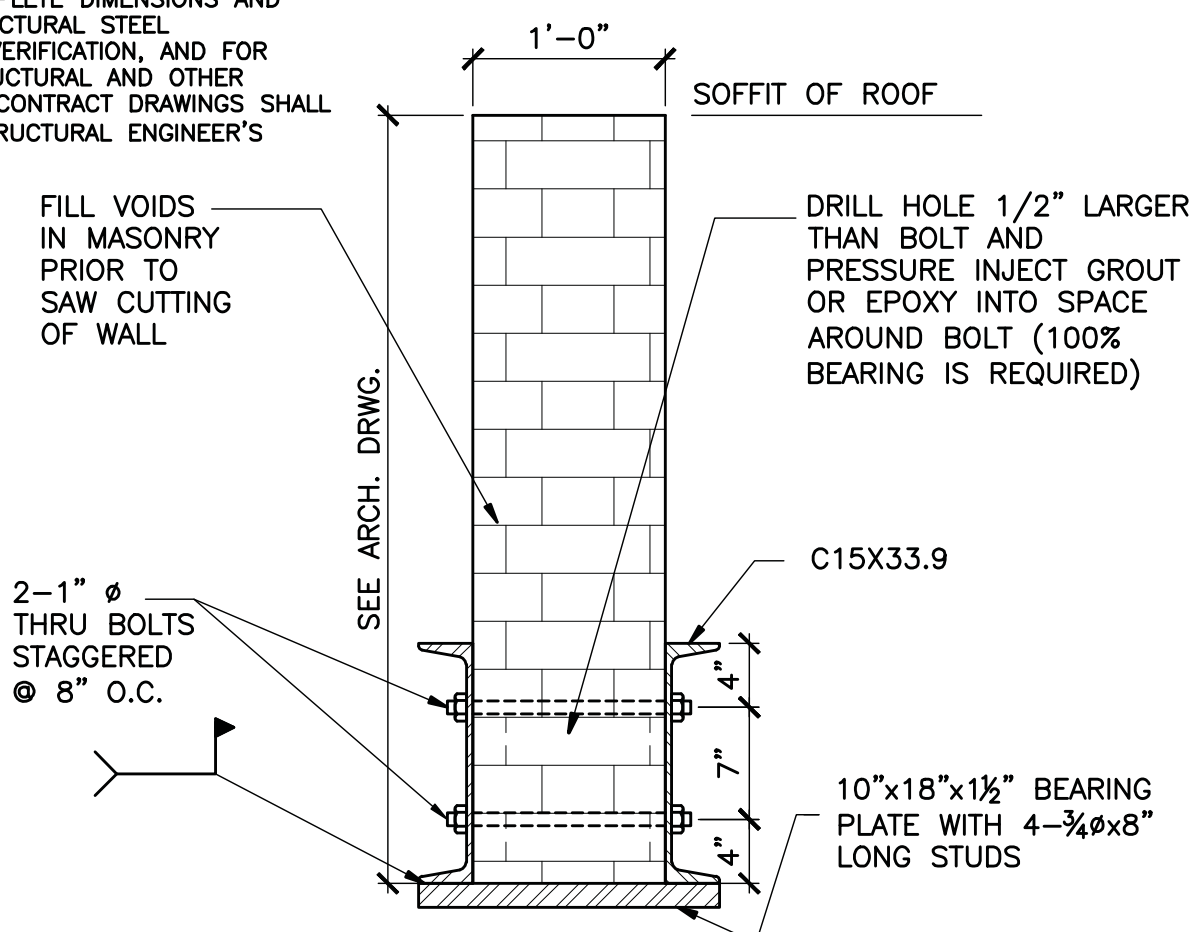
REINFORCING STEEL

REINFORCING BARS SHALL BE DEFORMED BILLET STEEL CONFORMING TO ASTM A615, GRADE 60. ALL WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185. REINFORCING BAR MATS SHALL ALSO CONFORM TO ASTM A184. BARS SHALL BE BRANDED BY THE MANUFACTURER WITH BAR SIZE AND GRADE OF STEEL AND CERTIFIED MILL REPORTS SHALL BE SUBMITTED FOR RECORD. REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH THE ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES", LATEST EDITION.

PROVIDE CORNER BARS AT JUNCTIONS OF CONCRETE WALLS, GRADE BEAMS AND WALL FOOTINGS AND LAP WITH WALL REINFORCING AS SHOWN IN TYPICAL DETAILS. SIZE AND SPACING OF CORNER BARS TO BE SAME AS HORIZONTAL WALL REINFORCING, UNLESS SHOWN OTHERWISE. WHERE CONTINUOUS BARS ARE CALLED FOR, THEY SHALL RUN CONTINUOUSLY AROUND CORNERS AND LAPPED AS NECESSARY. PROVIDE STANDARD HOOKS AT DISCONTINUOUS ENDS. TENSION AND COMPRESSION LAP SPICES SHALL NOT BE LESS THAN THE SPICE LENGTHS AS GIVEN IN ACI-318. GENERALLY LAP TOP BARS AT MID SPAN AND BOTTOM BARS AT SUPPORTS. PROVIDE PLACING ACCESSORIES IN ACCORDANCE WITH ACI RECOMMENDATIONS.



MIDSPAN SECTION DETAIL
SCALE 1"=1'-0"



BEARING SECTION DETAIL
SCALE 1"=1'-0"



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SUITE 700
BETHESDA, MD 20814
(202)333-2000
(202)333-2001 FAX

129 CENTERWAY ROAD
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SECTION DETAILS AND NOTES

CITY OF GREENBELT
GREENBELT THEATER
RENOVATION

REVISIONS:
PERMIT SET 01/22/07
BID SET 09/08/09

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SCALE: AS NOTED
DATE: 10-19-06

PROJECT NO. 03.0299

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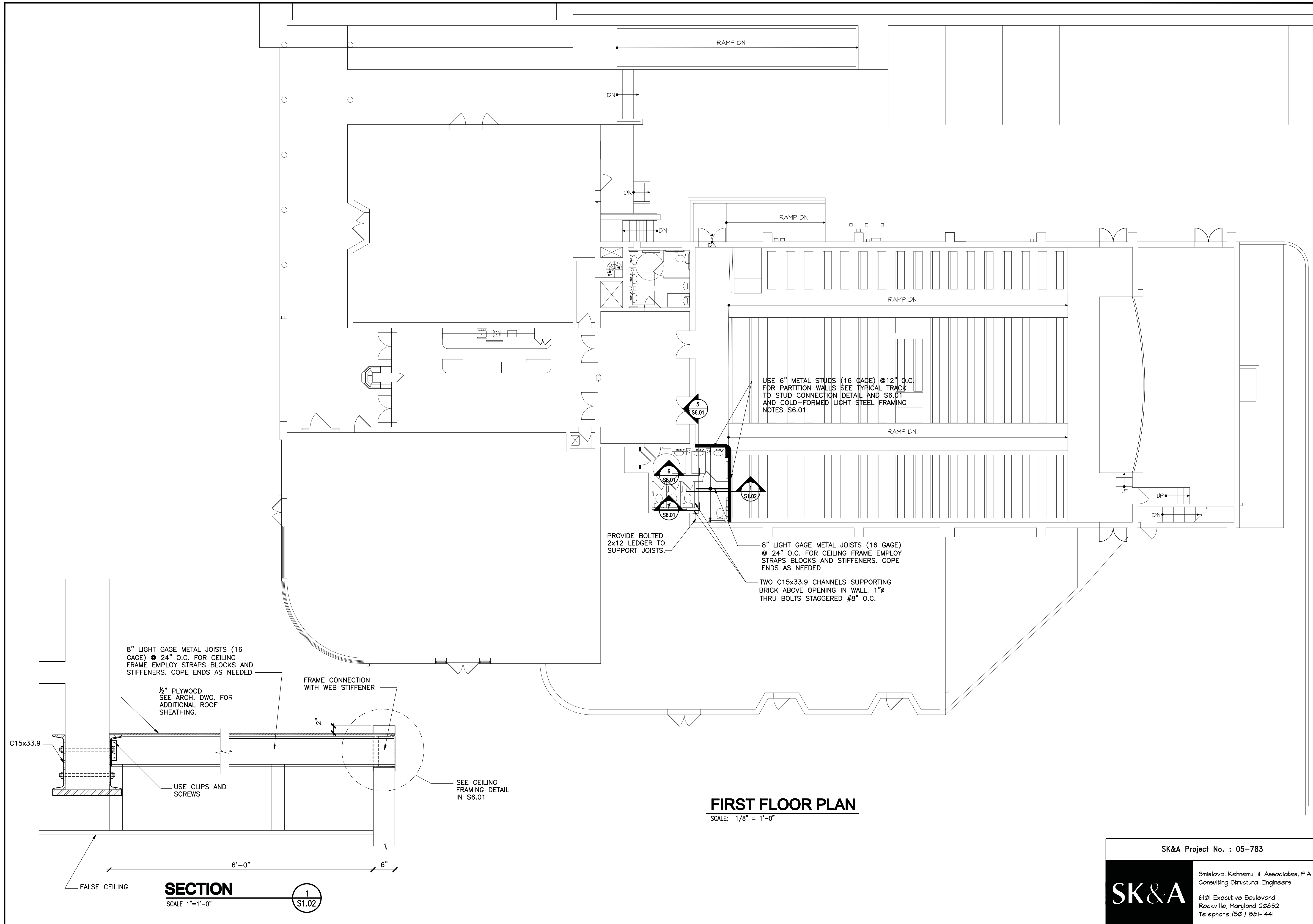
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SK&A Project No. : 05-783

SK&A

Emilova, Kehnemui & Associates, P.A.
Consulting Structural Engineers

6101 Executive Boulevard
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Telephone (301) 881-1441



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SUITE 700
BETHESDA, MD 20814
(240)333-2000
(240)333-2001 FAX

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FIRST FLOOR PLAN

CITY OF GREENBELT
GREENBELT THEATER
RENOVATION

REVISIONS:
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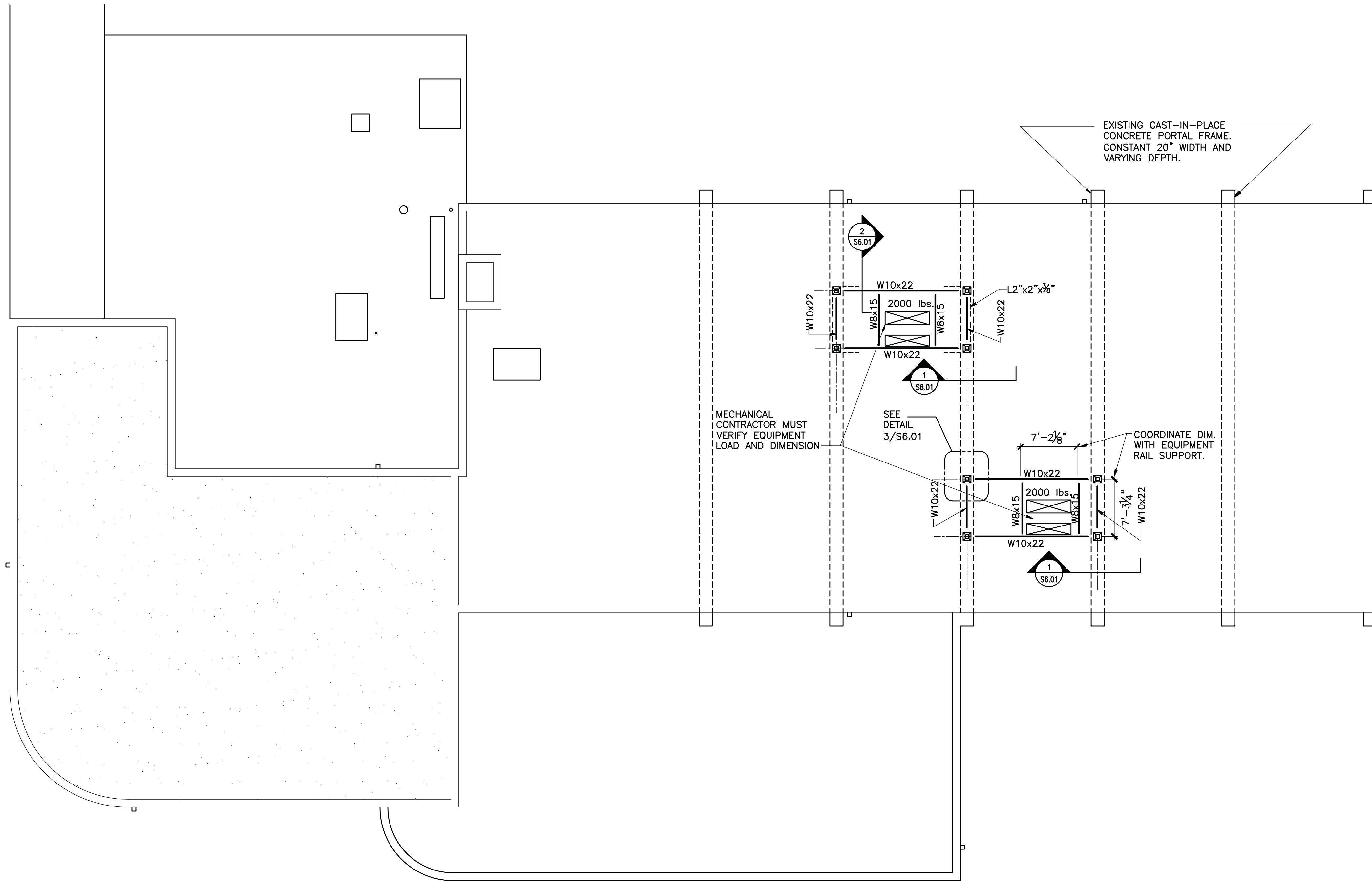
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ROOF PLAN
SCALE: 1/8" = 1'-0"

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ROOF PLAN

CITY OF GREENBELT
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RENOVATION

REVISIONS:
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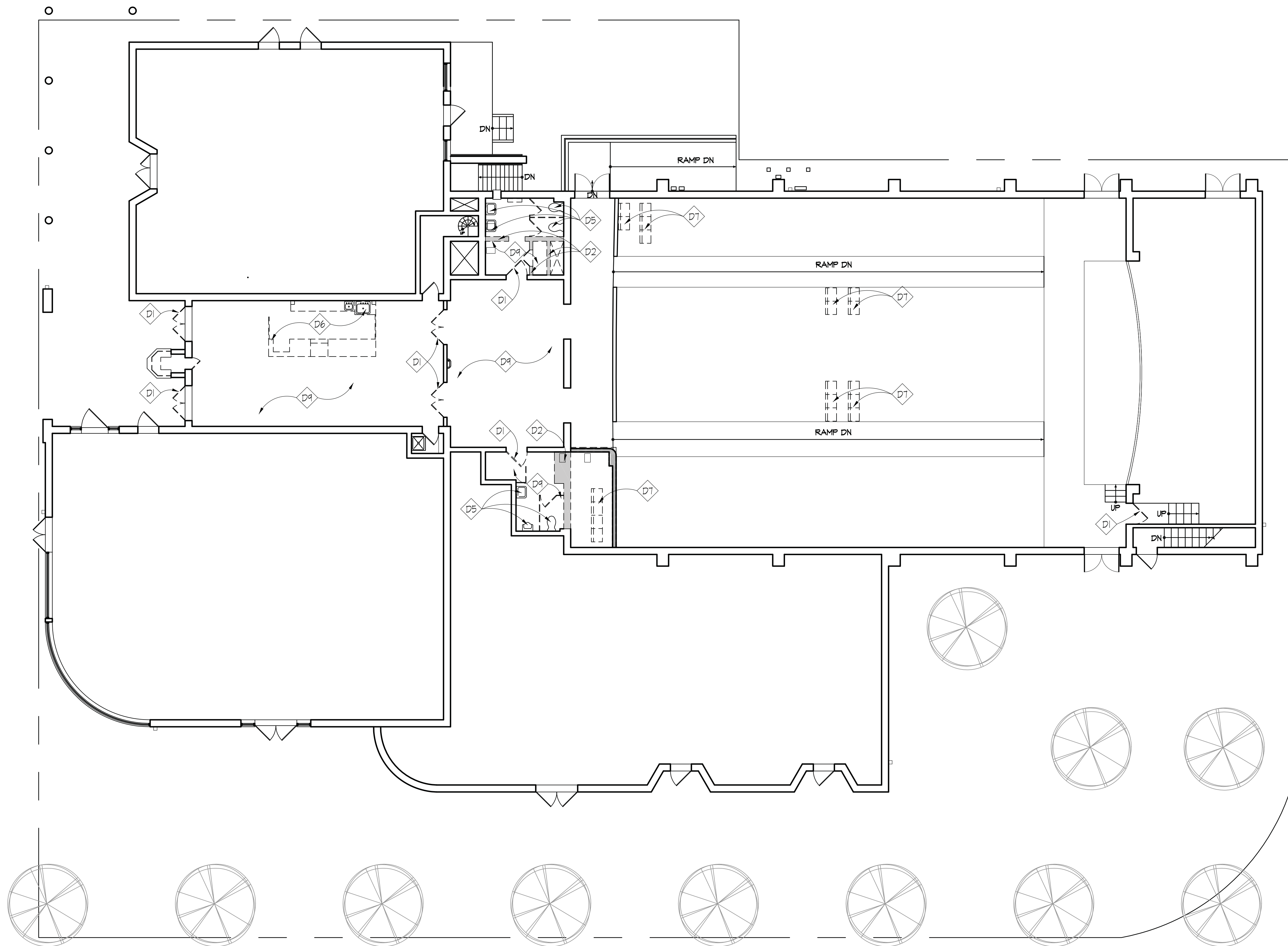
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S1.01



DEMOLITION - FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

DEMOLITION NOTES:

- D1** REMOVE EXISTING DOOR AND FRAME.
- D2** REMOVE EXISTING PARTITION/WALL.
- D3** NEW OPENING COORD. LOCATION WITH PROPOSED FLOOR PLANS.
- D4** REMOVE EXISTING CONCRETE STAIR, LANDING, AND HANDRAIL.
- D5** REMOVE EXISTING PLUMBING FIXTURES.
- D6** REMOVE EXISTING CONCESSION EQUIPMENT, CABINETS AND COUNTERTOPS. SAVE AND STORE ICE MACHINE FOR RE-USE. COORDINATE W/ THEATER OPERATOR PAUL SANCHEZ @ 301-543-2460.
- D7** REMOVE EXISTING THEATER SEATS. PATCH AND REPAIR CONCRETE.
- D8** REMOVE EXISTING BOLLARDS.
- D9** REMOVE EXISTING SUSPENDED CEILING TILE AND SYSTEM.

GENERAL DEMO NOTES:

1. REMOVE EXISTING DUCTWORK.
2. CAP OFF ALL EXISTING PLUMBING/GAS THAT IS TO BE ABANDONED.
3. PATCH/REPAIR SKIM COAT REMAINING WALLS / CEILING AS REQUIRED.

DEMOLITION LEGEND:

- DEMOLISH EXISTING WALL.
- REMOVE EXISTING FLOOR/ROOF & STRUCTURE.
- WALL AREA TO BE REMOVED
- WALL AREA TO REMAIN
- REMOVE EXISTING CONCRETE CURB/FLOOR/SLAB.

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DEMOLITION -
FIRST FLOOR PLAN

CITY OF GREENBELT
**GREENBELT THEATER
RENOVATION**

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ARCHITECTURAL SITE PLAN

ARCHITECTURAL SITE PLAN

**CITY OF GREENBELT
GREENBELT THEATER
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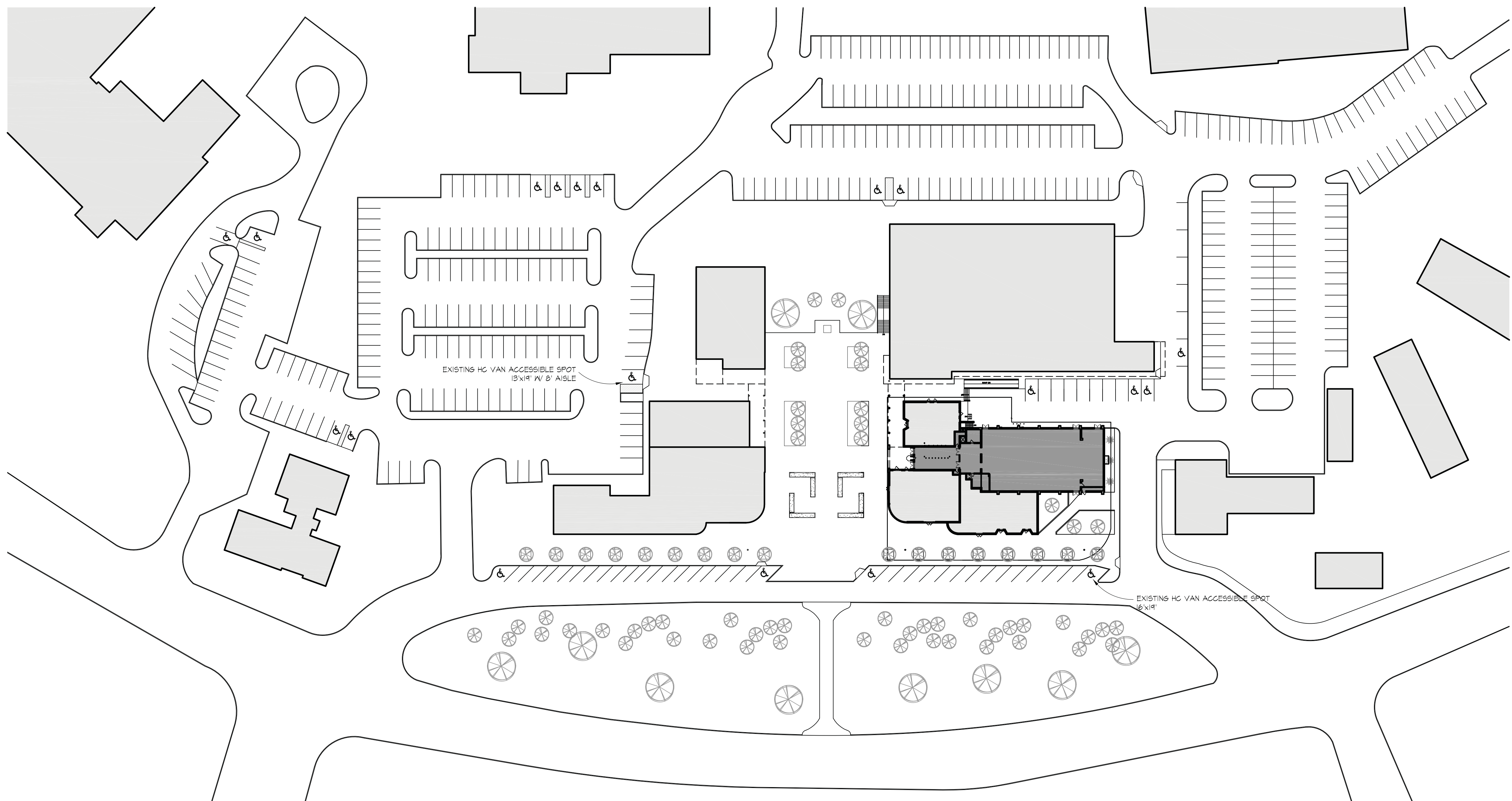
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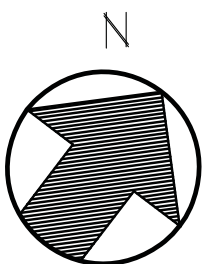
LEGEND



GREENBELT THEATER - AREA OF WORK

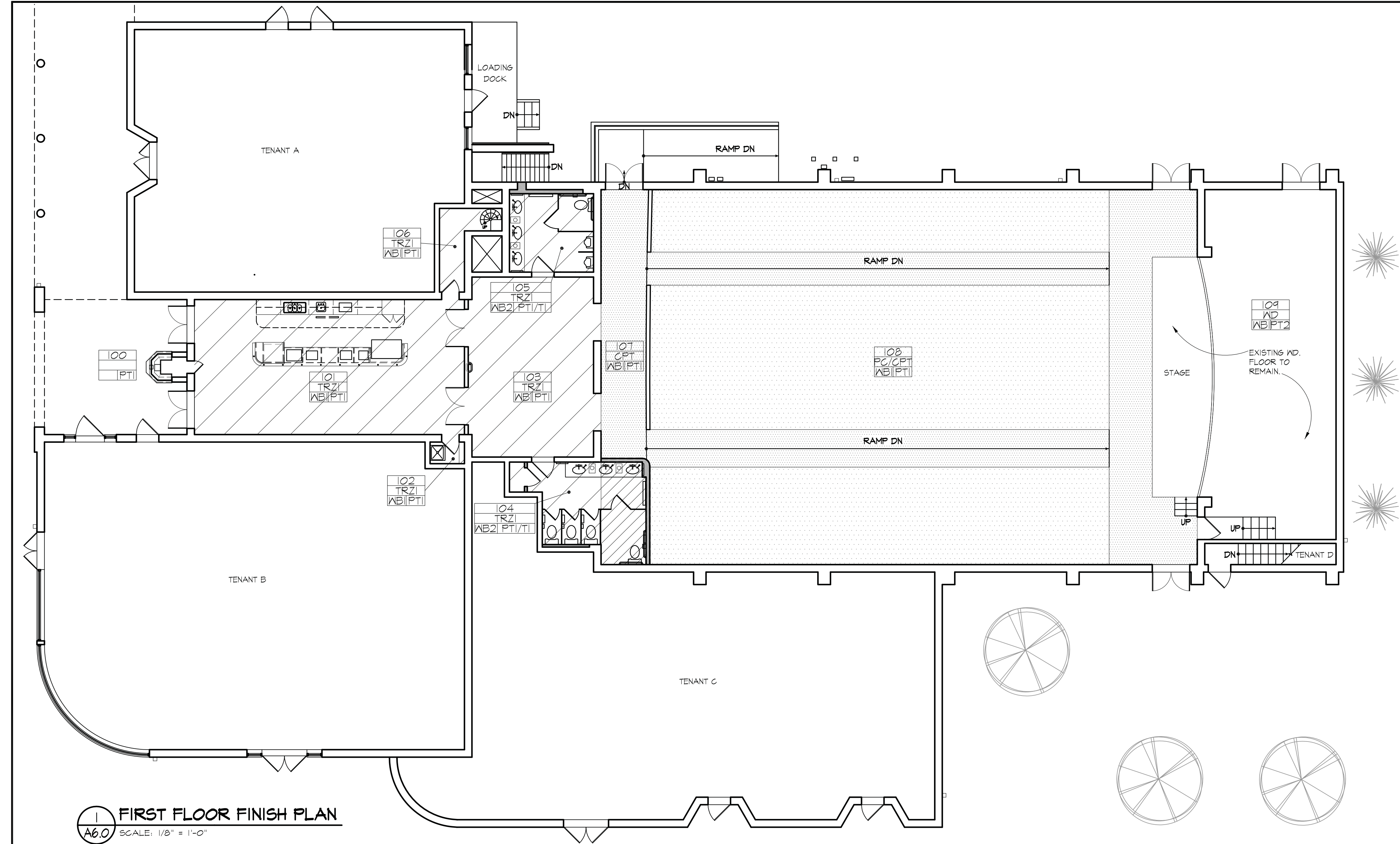


EXISTING STRUCTURES



ARCHITECTURAL SITE PLAN

SCALE: N.T.S



1
A6.0
FIRST FLOOR FINISH PLAN
SCALE: 1/8" = 1'-0"

SYMBOL LEGEND

ROOM NO.		FLOOR FINISH	
BASE FINISH		WALL FINISH	
FINISH	DESCRIPTION	FINISH	DESCRIPTION
WB1	1"x4" PAINTED WOOD BASE	CPT	CARPET
WB2	COVE TILE BASE	TR21	TERRAZZO
MALL FINISH		TR22	TERRAZZO
FINISH	DESCRIPTION	PC	CONCRETE
PT1	PAINTED 8"Y. BD.	WD	WOOD
PT2	PAINTED MASONRY		
TI	TILE MANSLOT		

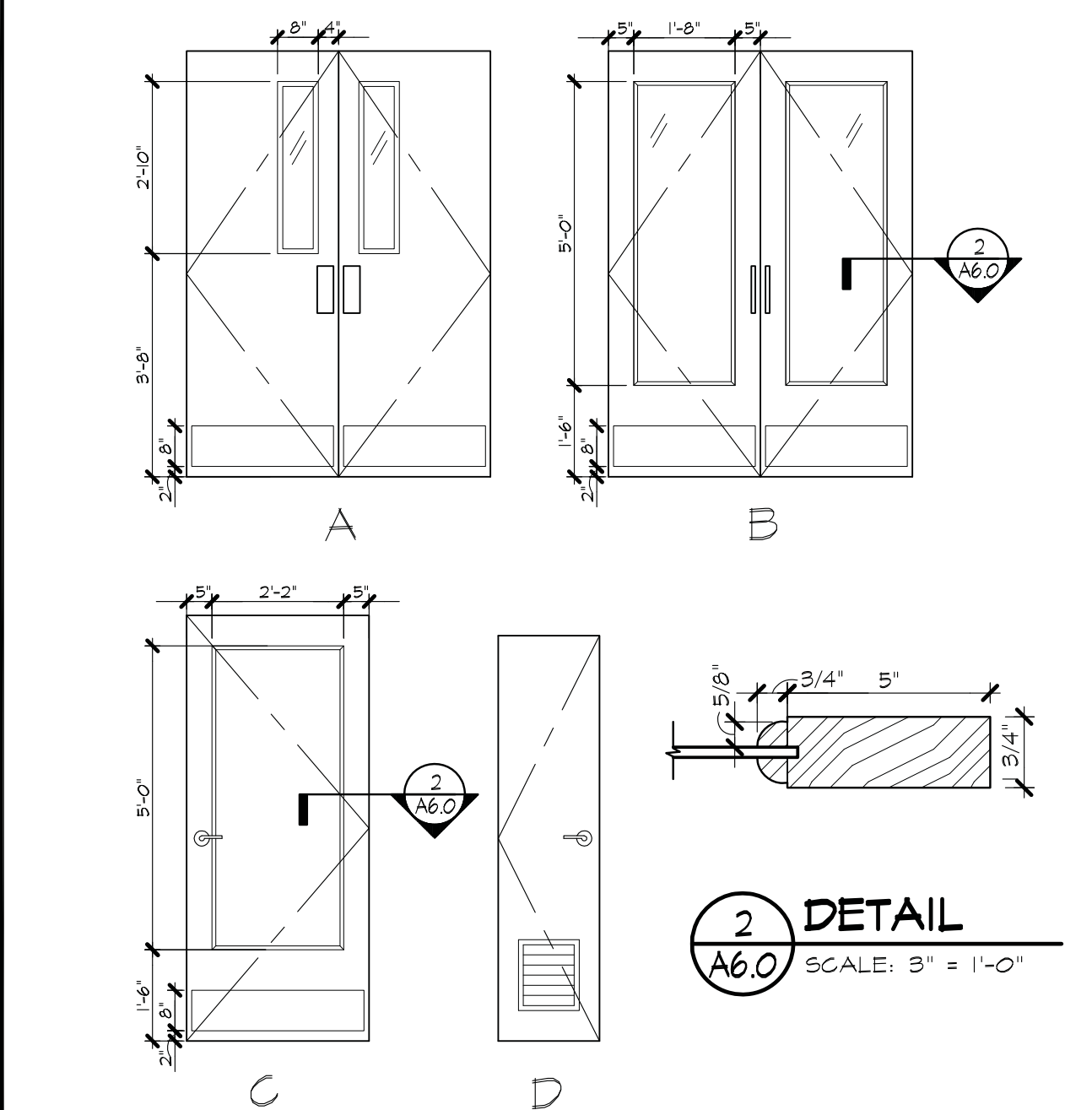
FINISH LEGEND

	NEW CARPET RUNNER		REPAIR/POLISH/SEAL EXISTING TERRAZZO
	REPAIR & PT. EXISTING CONCRETE FLOOR		NEW TERRAZZO TO MATCH EXISTING

GENERAL NOTES

1. REMOVE & DISPOSE OF EXISTING CARPETING.

DOOR TYPES



2
A6.0
DETAIL
SCALE: 3/8" = 1'-0"

DOOR SCHEDULE

DESIGNATION	DOOR						FRAME		HARDWARE SET	REMARKS
	DOOR NUMBER	TYPE	DOOR SIZE	THICKNESS	MATERIAL	FINISH	MATERIAL	FINISH		
ENTRANCE	1	A	(2) 2'-6" x 7'-0"	1 3/4"	WOOD	STAINED	WOOD	STD	H-1	
ENTRANCE	2	A	(2) 2'-6" x 7'-0"	1 3/4"	WOOD	STAINED	WOOD	STD	H-2	
TICKET BOOTH	3	D	1'-8" x 6'-8"	1 3/4"	WOOD	STAINED	WOOD	STD	H-5	
LOBBY	4	B	(2) 2'-6" x 7'-0"	1 3/4"	WOOD	STAINED	WOOD	STD	H-6	
LOBBY	5	B	(2) 2'-6" x 7'-0"	1 3/4"	WOOD	STAINED	WOOD	STD	H-9	
MEN'S TOILET	6	C	3'-0" x 7'-0"	1 3/4"	WOOD	STAINED	WOOD	STD	H-7	
WOMEN'S TOILET	7	C	3'-0" x 7'-0"	1 3/4"	WOOD	STAINED	WOOD	STD	H-7	
WOMEN'S CLOS.	8	C	2'-6" x 7'-0"	1 3/4"	WOOD	STAINED	WOOD	STD	H-8	
STORAGE	9	C	3'-0" x 7'-0"	1 3/4"	WOOD	PAINT	WOOD	PTD	H-8	
AUDITORIUM	R		REPAIR EXISTING DOOR						H-3	
STORAGE	RI		REPAIR EXISTING DOOR						H-4	

DOOR NOTES

1. 120 MINUTE FIRE-RATED WOOD DOOR WITH FIRELITE GLASS BY 'EGGERS' (BOB LINDQUIST - 1-866-234-4311)
2. FIREGUARD PLUS SINGLE WOOD VENEER 45-MINUTE C-LABEL FIRE DOOR BY 'EGGERS' (BOB LINDQUIST - 1-866-234-4311)
3. PROVIDE ALTERNATE PRICE FOR CUSTOM MD PANEL EXTERIOR DOOR, PAINT GRADE

DOOR HARDWARE NOTES

1. ALL LOCKS TO BE MASTER KEYED AND KEYED INDIVIDUALLY AS DIRECTED BY OWNER/ARCHITECT. USE A PATENT PROTECTED KEY EVEREST BY SCHLAGE.
2. MANUFACTURERS AND THEIR ABBREVIATIONS USED IN THIS SCHEDULE:
IVE- H.B. IVES
LCN- LCN CLOSERS
NSP- NATIONAL GUARD PRODUCTS
SCH- SCHLAGE LOCK COMPANY
VON- VON DUFRIN
GLY- GLYNN JOHNSON
626- SATIN CHROME BRASS/BRONZE BASE
630- SATIN STAINLESS STEEL
652- SATIN CHROME, BASE METAL STEEL
684- ALUMINUM POWDER COAT

DOOR HARDWARE SCHEDULE/GROUPS

HARDWARE SET	QUANTITY	HARDWARE	MANUFACTURER/ CATALOG NUMBER	FINISH	MANUFACTURER	HARDWARE SET	QUANTITY	HARDWARE	MANUFACTURER/ CATALOG NUMBER	FINISH	MANUFACTURER	HARDWARE SET	QUANTITY	HARDWARE	MANUFACTURER/ CATALOG NUMBER	FINISH	MANUFACTURER
H-1	6	HINGE	5BB1 4.5 X 4.5 NRP	630	IVE	H-3	6	HINGE	5BB1 4.5 X 4.5 NRP	630	IVE	H-6	12	HINGE	5BB1 4.5 X 4.5	652	IVE
	1	PANIC HARDWARE	3321A-EO	626	VON		2	PANIC HARDWARE	3321A-EO	626	VON		4	PUSH PLATE	8200 4"x16"	630	IVE
	1	PANIC HARDWARE	3321A-NL-OP	626	VON		2	SURFACE CLOSER	1461 SCUSH	684	LCN		4	PULL	8303-B	630	IVE
	1	RIM CYLINDER	20-022	626	SCH		2	KICK PLATE	8400 8"x1" LDW	630	IVE		4	SURFACE CLOSER	1461 HCUSH	684	LCN
	2	DOOR PULL	8103-B	630	IVE		2	JAMB SEALS	1605	AL	NSP		4	KICK PLATE	8400 8" X 1" LDW	630	IVE
	2	SURFACE CLOSER	1461 SCUSH	684	LCN		1	HEAD SEAL	7005A	AL	NSP	H-7	3	HINGE	5BB1 4.5 X 4.5	652	IVE
	2	KICK PLATE	8400 8"x1" LDW	630	IVE		2	DOOR SWEEP	C62TA	AL	NSP		1	PUSH PLATE	8200 4"x16"	630	IVE
	2	JAMB SEALS	1605	AL	NSP		1	THRESHOLD	425	AL	NSP		1	PULL	8303-B	630	IVE
	1	HEAD SEAL	7005A	AL	NSP		1 SET	ASTRAGALS	600A	AL	NSP		1	SURFACE CLOSER	1461	684	LCN
	2	DOOR SWEEP	C62TA	AL	NSP	H-4	6	HINGE	5BB1 4.5 X 4.5 NRP	630	IVE		1	OVERHEAD STOP	4505	630	GLY
	1	THRESHOLD	425	AL	NSP		1	MORTISE DEADBOLT	L464P (CYL. ON INSIDE)	626	SCH		1	KICK PLATE	8400 8" X 2" LDW	630	IVE
H-2	6	HINGE	5BB1 4.5 X 4.5 NRP	630	IVE		1	ASTRAGAL	139A	600	NSP	H-8	3	HINGE	5BB1 4.5 X 4.5	652	IVE
	2	PANIC HARDWARE	3321A-EO	626	VON		2	OVERHEAD HOLDER	900H	630	GLY		1	ENTRANCE LOCK	ND53PD ATH	626	SCH
	2	DOOR PULL	8103-B	630	IVE		2	JAMB SEALS	1605	AL	NSP		1	OVERHEAD STOP	4505	630	GLY
	2	KICK PLATE	8400 8"x1" LDW	630	IVE		1	HEAD SEAL	7005A	AL	NSP	H-9	12	HINGE	5BB1 4.5 X 4.5	652	IVE
	2	JAMB SEALS	1605	AL	NSP		2	DOOR SWEEP	C62TA	AL	NSP		4	PUSH PLATE	8200 4"x16"	630	IVE
	1	HEAD SEAL	7005A	AL	NSP		1	THRESHOLD	425	AL	NSP		4	PULL	8303-B	630	IVE
	2	DOOR SWEEP	C62TA	AL	NSP	H-5	3	HINGE	5BB1 4.5 X 4.5	652	IVE		4	SURFACE CLOSER	1461 HCUSH	684	LCN
	1	THRESHOLD	425	AL	NSP		1	STOREROOM LOCK	ND80PD ATH	626	SCH		4	KICK PLATE	8400 8" X 1" LDW	630	IVE
	1	AUTOMATIC OPERATOR - TOP JAMB SIMULTANEOUS PAIR	9553	PUSH-RF	LCN		1	OVERHEAD HOLDER	450H	630	GLY	⚠	1	AUTOMATIC OPERATOR - TOP JAMB SIMULTANEOUS PAIR	9553	PUSH-RF	LCN
⚠	2	WALL-MOUNTED PUSH BUTTONS	7930-204		LCN								2	WALL-MOUNTED PUSH BUTTONS	7930-204		LCN

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SUITE 700
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FINISH PLAN AND
DOOR SCHEDULE

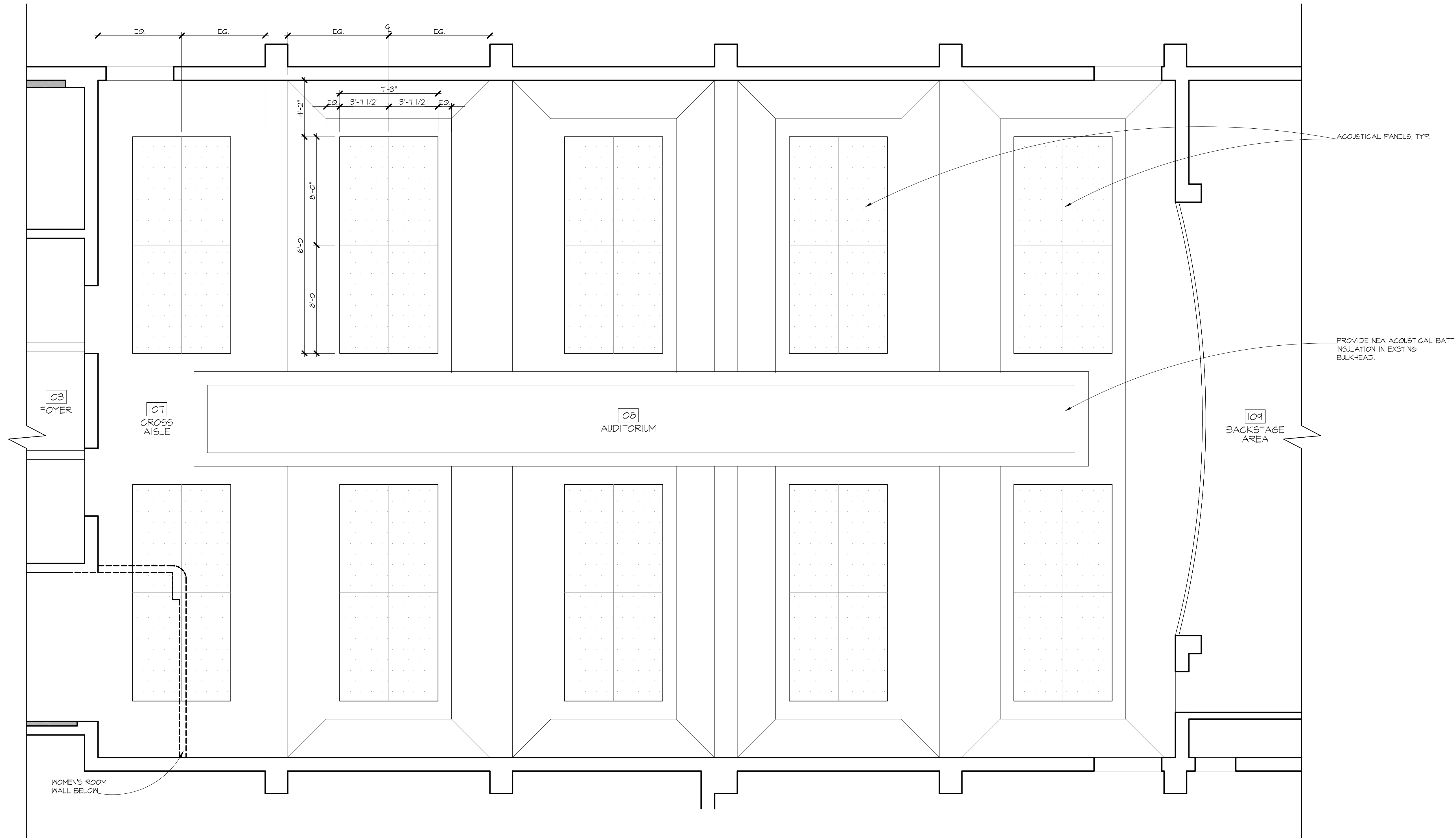
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**GREENBELT THEATER
RENOVATION**

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A6.0



ACOUSTICAL PANEL CEILING PLAN @ AUDITORIUM
A5.2 SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. ACOUSTICAL PANELS TO BE 4" THICK FIBERGLASS ACOUSTICAL PANELS WRAPPED IN FABRIC BY GUILFORD OF MAINE.
2. PANELS TO BE MOUNTED TO EXISTING WALLS/CEILINGS WITH Z-CLIPS PROVIDED BY THE PANEL MANUFACTURER.
3. ALL PANEL TO PANEL JOINTS TO BE KERF AND SPLINE BUTT JOINT.
4. ALL OUTSIDE EDGES OF PANELS TO HAVE HALF BEVEL EDGE.
5. CEILING PANELS TO BE 4" FIBERGLASS ACOUSTICAL PANELS WITH FACTORY APPLIED PAINT FINISH IN 'BENJAMIN MOORE' 2134-10



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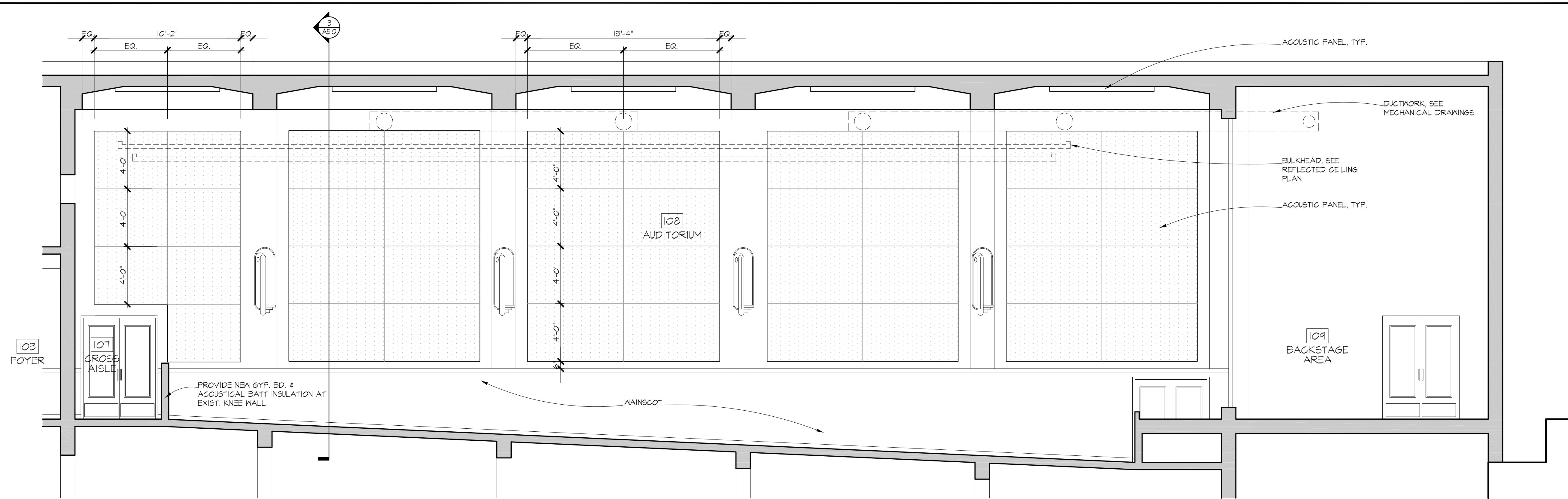
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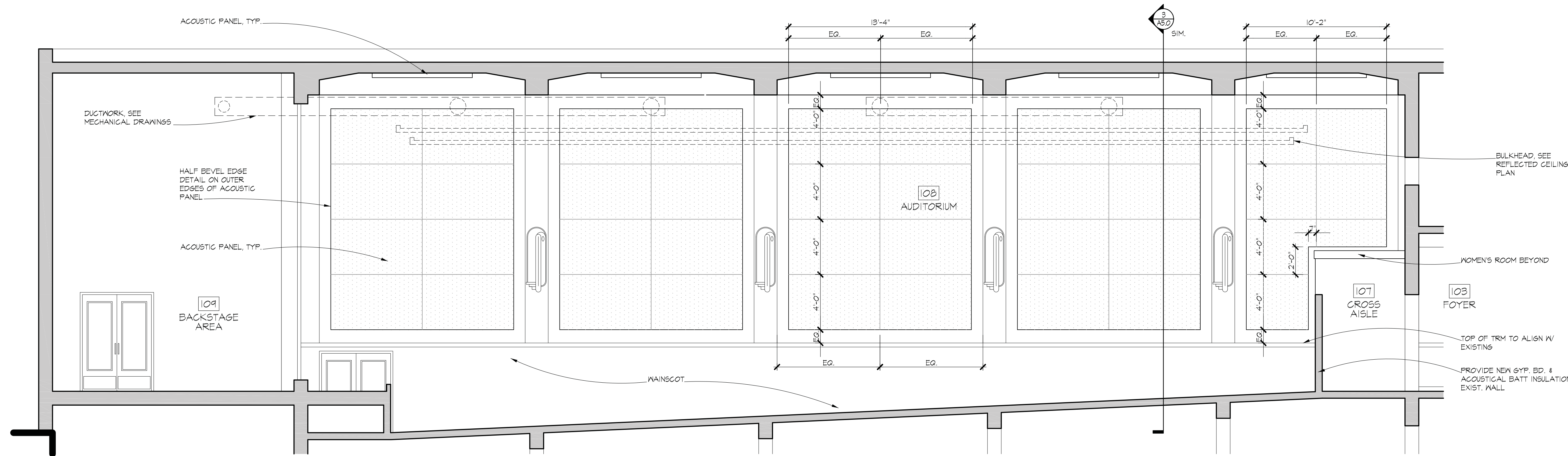
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A5.2



1
A5.1 AUDITORIUM ELEVATION - NORTH
SCALE: 1/4" = 1'-0"



2
A5.1 AUDITORIUM ELEVATION - SOUTH
SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. ACOUSTICAL PANELS TO BE 4" THICK FIBERGLASS ACOUSTICAL PANELS WRAPPED IN FABRIC BY GUILFORD OF MAINE.
2. PANELS TO BE MOUNTED TO EXISTING WALLS/CEILING WITH Z-CLIPS PROVIDED BY THE PANEL MANUFACTURER.
3. ALL PANEL TO PANEL JOINTS TO BE KERF AND SPLINE BUTT JOINT.
4. ALL OUTSIDE EDGES OF PANELS TO HAVE HALF BEVEL EDGE.
5. CEILING PANELS TO BE 4" FIBERGLASS ACOUSTICAL PANELS WITH FACTORY APPLIED PAINT FINISH IN 'BENJAMIN MOORE' 2134-10



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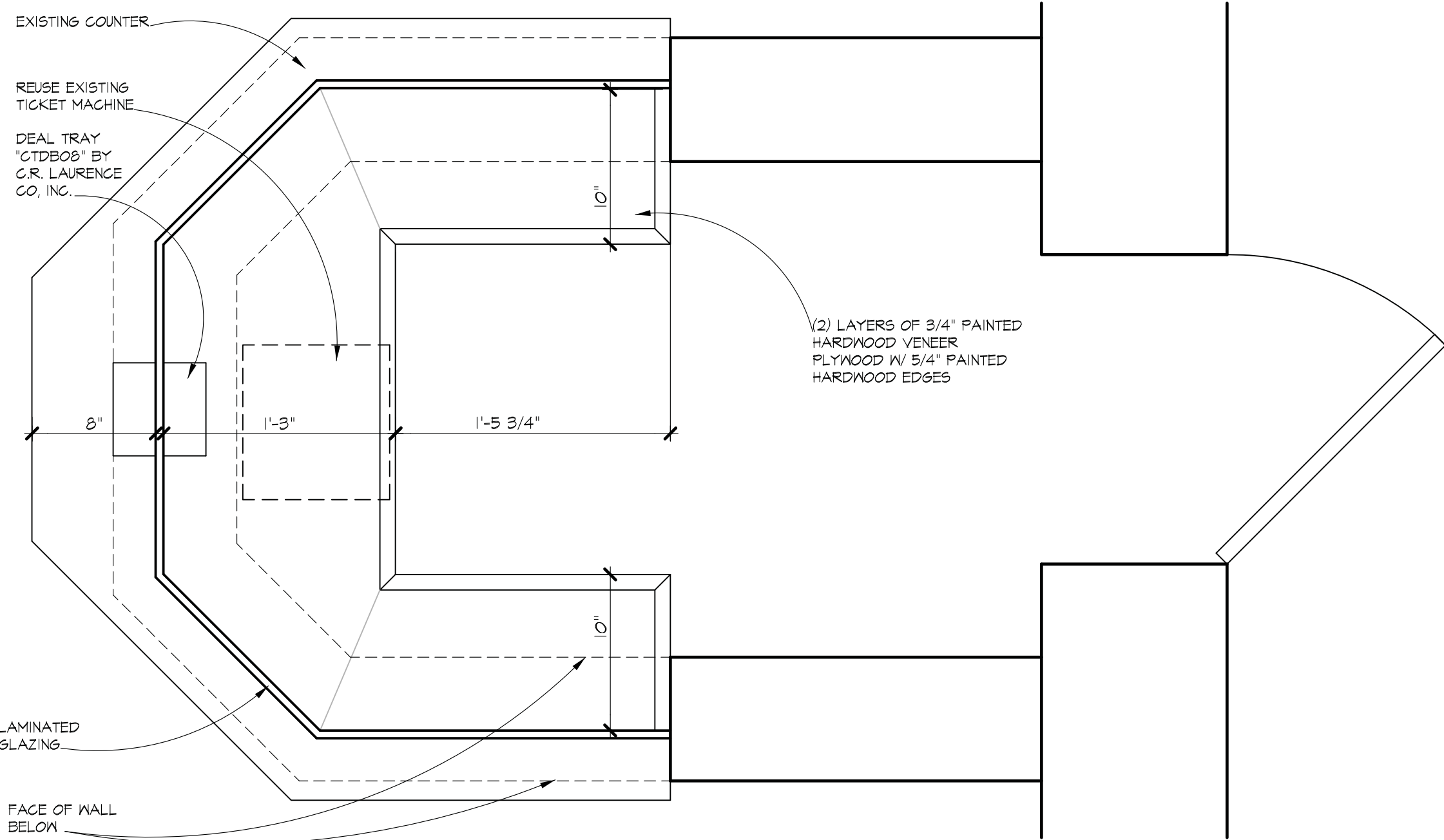
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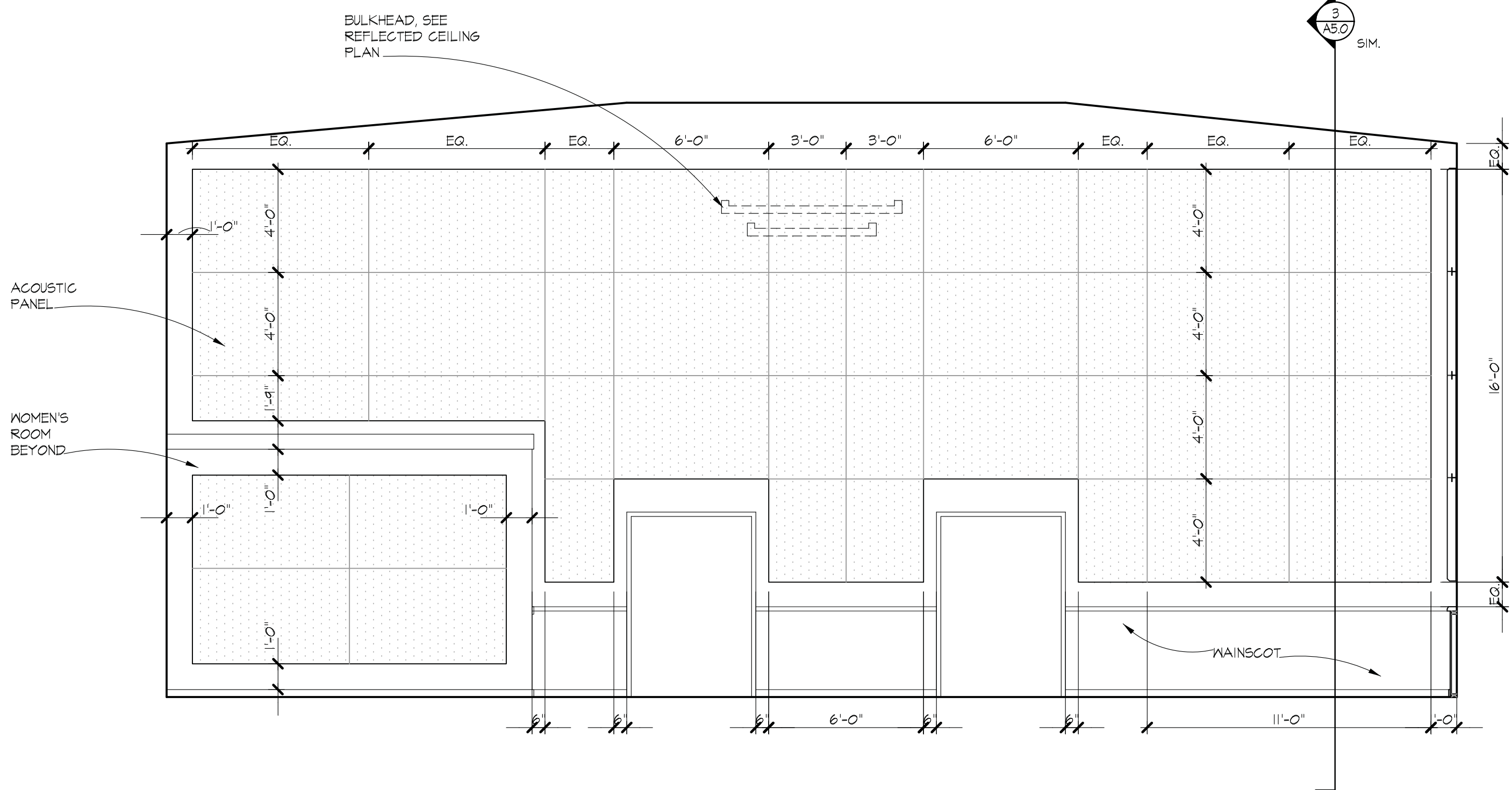
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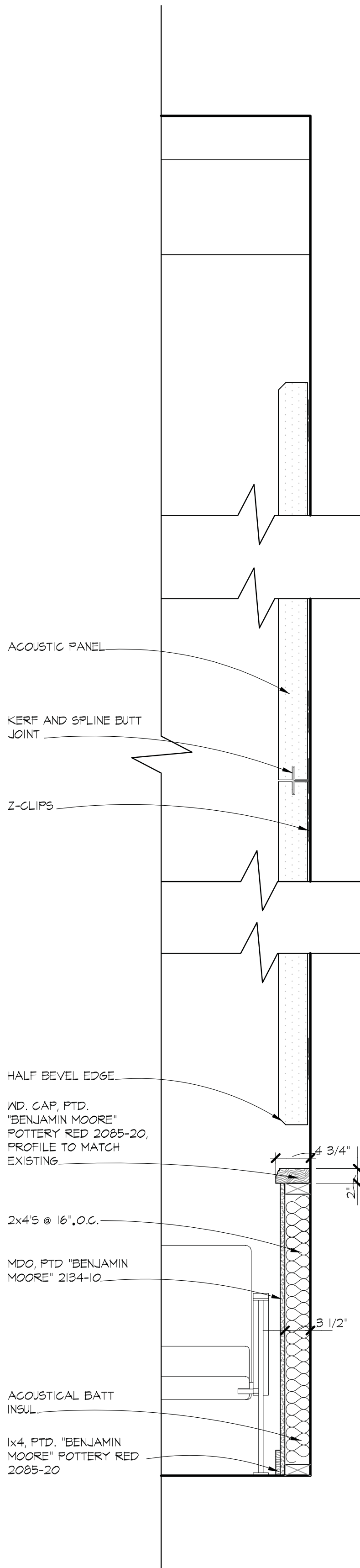


1 ENLARGED TICKET BOOTH PLAN
SCALE: 1-1/2" = 1'-0"

LAMINATED GLASS SHALL BE (2) LAYERS OF 3/16" HEAT STRENGTHENED CLEAR GLASS WITH A .030" POLYVINYL BUTYRAL INNER LAYER. RETAIN GLASS IN BRONZE ANODIZED 1" CHANNELS WITH ROLL IN GASKETS. (CR LAWRENCE CO. GRL 240) SEAL VERTICAL JOINTS WITH CLEAR SILICONE.



2 AUDITORIUM ELEVATION WEST
SCALE: 1/4" = 1'-0"



3 ACOUSTICAL PANEL DETAIL
SCALE: 1" = 1'-0"

ACOUSTICAL PANEL AREA CALCULATIONS

NORTH WALL -	990 SQ. FT.
SOUTH WALL -	911 SQ. FT.
WEST WALL -	124 SQ. FT.
CEILING -	1,160 SQ. FT.
TOTAL	3,851 SQ. FT.

GENERAL NOTES

- ACOUSTICAL PANELS TO BE 4" THICK FIBERGLASS ACOUSTICAL PANELS WRAPPED IN FABRIC BY GULFORD OF MAINE.
- PANELS TO BE MOUNTED TO EXISTING WALLS/CEILING WITH Z-CLIPS PROVIDED BY THE PANEL MANUFACTURER.
- ALL PANEL TO PANEL JOINTS TO BE KERF AND SPLINE BUTT JOINT.
- ALL OUTSIDE EDGES OF PANELS TO HAVE HALF BEVEL EDGE.
- CEILING PANELS TO BE 4" FIBERGLASS ACOUSTICAL PANELS WITH FACTORY APPLIED PAINT FINISH IN 'BENJAMIN MOORE' 2134-10



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DETAILS

CITY OF GREENBELT GREENBELT THEATER RENOVATION

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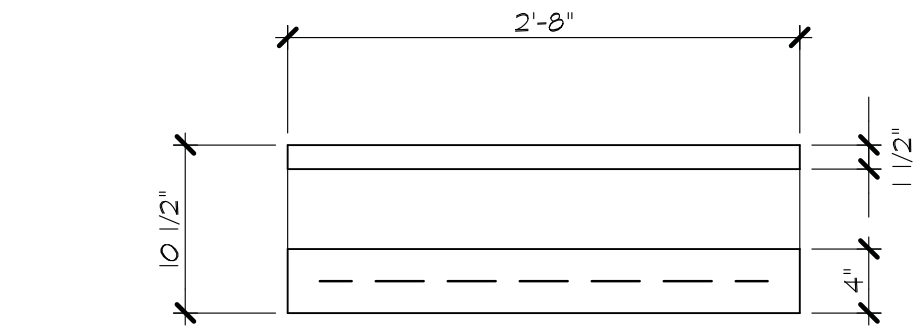
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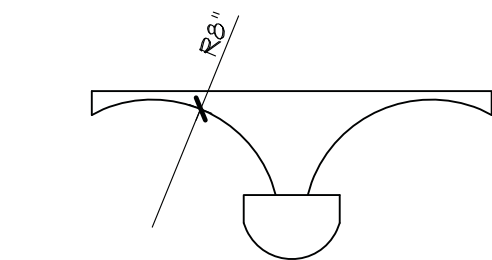
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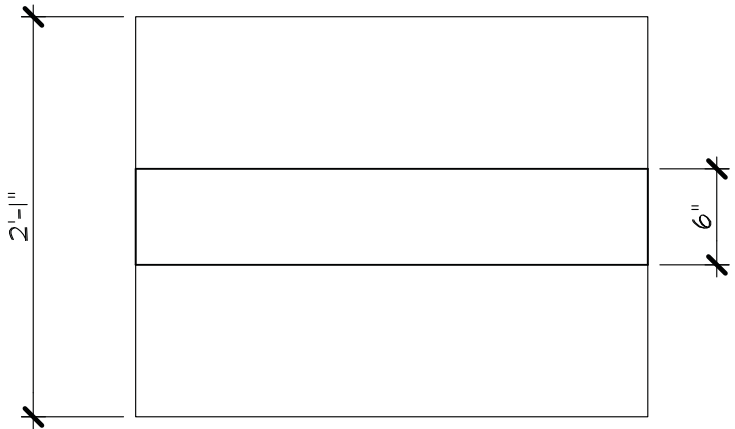
A5.0



SIDE ELEVATION

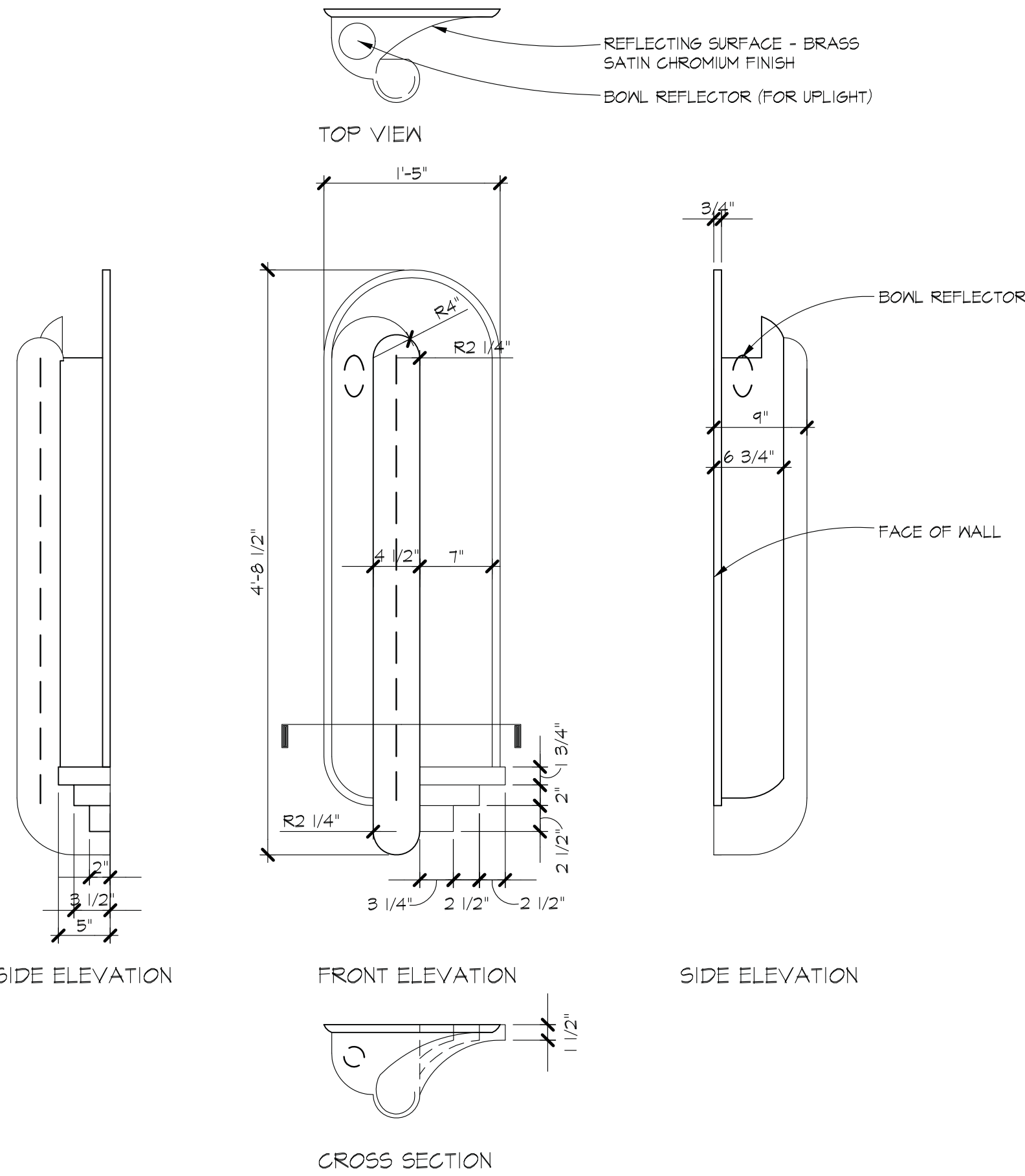
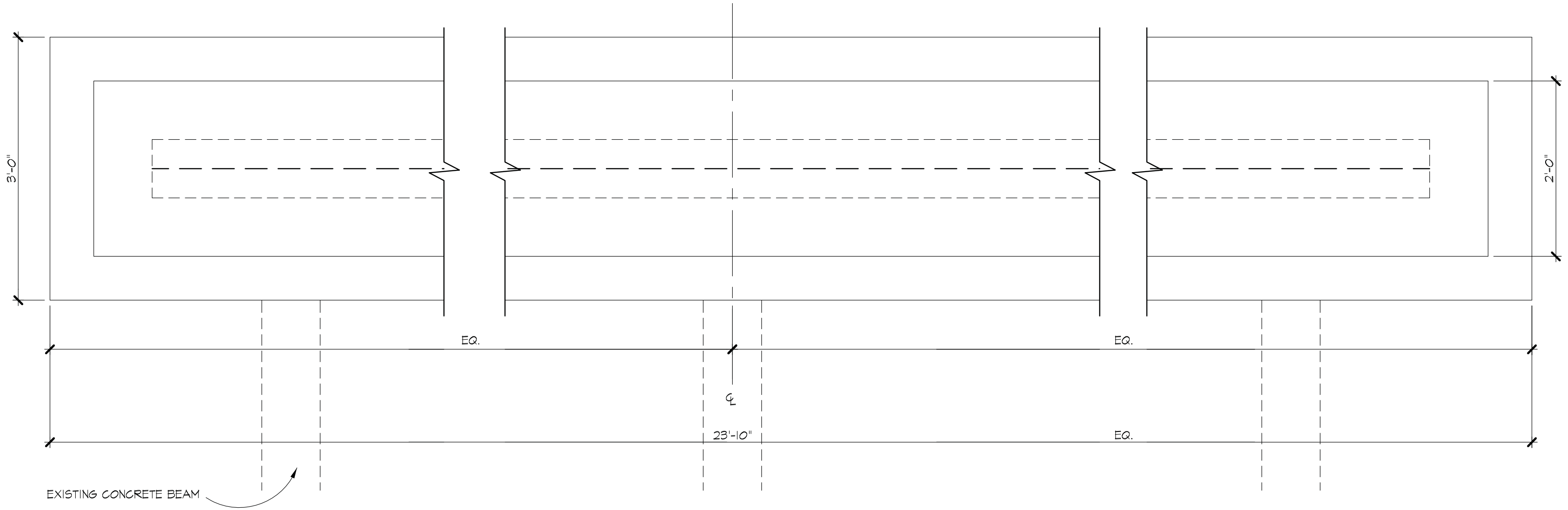


END ELEVATION



REFLECTED CEILING PLAN

1 FOYER CEILING FIXTURE
SCALE: 1" = 1'-0"



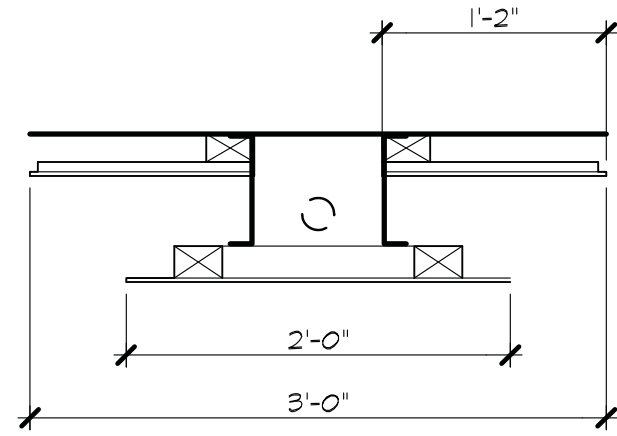
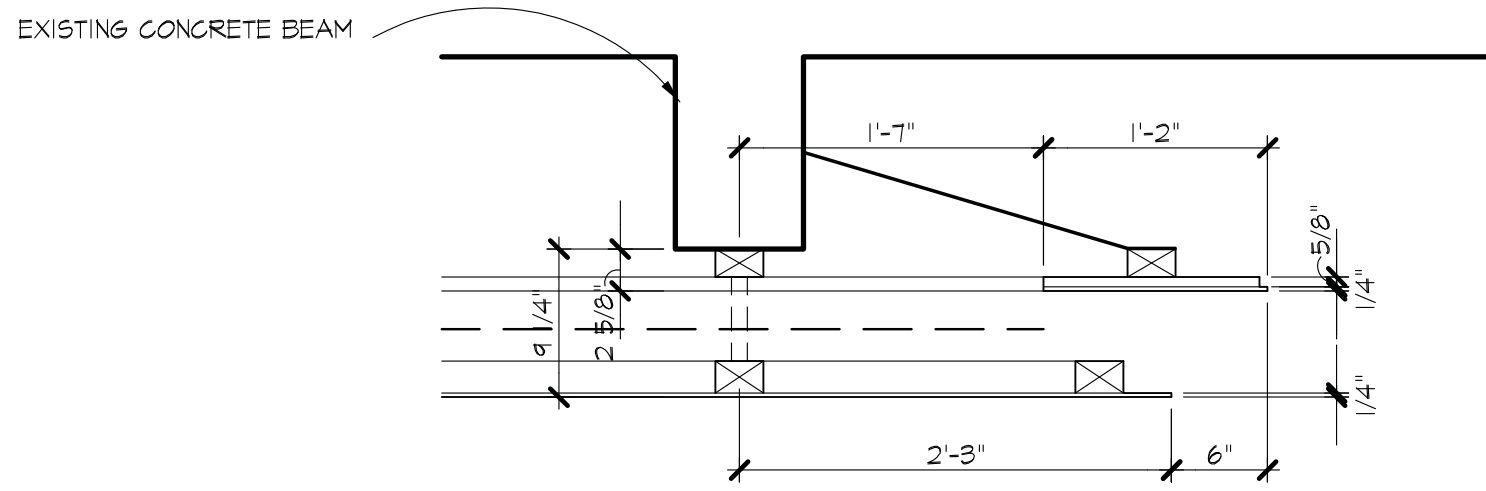
SIDE ELEVATION

FRONT ELEVATION

SIDE ELEVATION

CROSS SECTION

2 AUDITORIUM WALL SCONCE
SCALE: 1" = 1'-0"



3 LOBBY CEILING FIXTURE
SCALE: 1" = 1'-0"

NOTE:
1. CONTACT JOHN COVENTRY (301) 651-4018 FOR
INFORMATION ON CUSTOM LIGHTING.

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(240)333-2001 FAX

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LIGHTING FIXTURE
DETAILS

CITY OF GREENBELT
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A4.3

HEALTH DEPARTMENT GENERAL NOTES:

1. ALL PIPING CONDUIT, BX CABLE, AND SIMILAR CONSTRUCTION WILL BE EITHER LOCATED INSIDE A WALL OR INSTALLED WITH A MINIMUM 3/4-INCH SPACE FROM THE WALL OR SEALED TO THE WALL.
2. ALL DOORS TO THE OUTSIDE WILL BE SELF-CLOSING AND RODENT PROOF. MALL DOORS MUST BE SOLID CONSTRUCTION DESIGN WITH NO GAPS GREATER THAN 1/4-INCH.
3. A MINIMUM OF 20 FOOTCANDLES OF SHIELDED LIGHT WILL BE PROVIDED AT ALL WORK SURFACES IN STORAGE AREAS, FOOD PREPARATION AREAS, UTENSIL-WASHING AREAS, TOILET ROOMS, LOCKER ROOMS, AND IN GARBAGE AND RUBBISH AREAS.
4. ALL RESTROOM DOORS WILL BE SELF-CLOSING.
5. ALL RESTROOMS WILL BE EQUIPPED WITH MECHANICAL EXHAUST VENTILATION SIZED AT A MINIMUM RATE OF 2 CUBIC FEET PER MINUTE PER SQUARE FOOT OF FLOOR AREA AND EXHAUSTING DIRECTLY TO THE OUTSIDE.
6. ALL FLOOR-MOUNTED EQUIPMENT WILL BE PLACED ON NSF INTERNATIONAL (NSF) APPROVED 6-INCH LEGS, OR THE EQUIVALENT, AND PROPERLY SPACED FROM ADJACENT EQUIPMENT OR WALLS; OR PLACED ON NSF APPROVED CASTERS, OR THE EQUIVALENT; OR PROPERLY SEALED TO ALL ADJACENT SURFACES.
7. ALL COUNTER-MOUNTED FOOD SERVICE EQUIPMENT WEIGHING IN EXCESS OF 80 POUNDS WILL BE MOUNTED ON NSF APPROVED 4-INCH LEGS.
8. ALL EXPOSED RAW WOOD WILL BE SEALED/PAINTED.
9. ALL ANNULAR OPENINGS IN CONSTRUCTION WILL BE SEALED/CAULKED TO WITHIN 1/32 OF AN INCH.
10. ALL EXHAUST HOODS OVER COOKING EQUIPMENT WILL BE CAPABLE OF CAPTURING AND EXHAUSTING SMOKE GENERATED FROM A 60-SECOND SMOKE BOMB.
11. THE OUTSIDE STORAGE OF REFUSE AND GREASE WILL BE IN RODENT-PROOF CONTAINERS LOCATED ON A PAVED SURFACE.
12. ALL SINK INSTALLATIONS WILL BE EQUIPPED WITH HOT AND COLD RUNNING WATER THROUGH A MIXING VALVE OR COMBINATION FAUCET.
13. ALL PAINTING WILL BE WITH LEAD-FREE, NON-METALLIC, EASILY CLEANABLE PAINT OR A HIGH QUALITY VARNISH.
14. WASTEWATER FROM ALL APPLICABLE FOOD SERVICE EQUIPMENT WILL BE INDIVIDUALLY PLUMBED TO AN OPEN SITE DRAIN WITH A MINIMUM 1-INCH AIR GAP.
15. ALL OVERHEAD PLUMBING IN FOOD SERVICE FACILITIES MUST COMPLY WITH COMAR 10.15.03, SECTION 07 2 (2) (6).

SEALANT NOTES - THE USE OF SEALANTS ON FOOD SERVICE EQUIPMENT:

1. ALL SEALANTS MUST BE LISTED AS APPROVED BY NSF INTERNATIONAL (NSF) UNDER STANDARD 51.
2. SEALANTS SHALL BE USED ONLY IN STRUCTURALLY SOUND JOINTS AND SEAMS.
3. SEALANTS MAY BE USED TO FILL SPACES AND OPENINGS SUCH AS, BUT NOT LIMITED TO, BLIND RIVET HEADS AND SLOT AND PHILLIPS HEAD SCREWS.
4. OPENINGS AROUND SERVICE AND UTILITY LINES SHOULD BE CLOSED INSOFAR AS PRACTICAL BY:
A) COLLARS OR GROMMETS
B) FLEXIBLE FORM GASKETS.

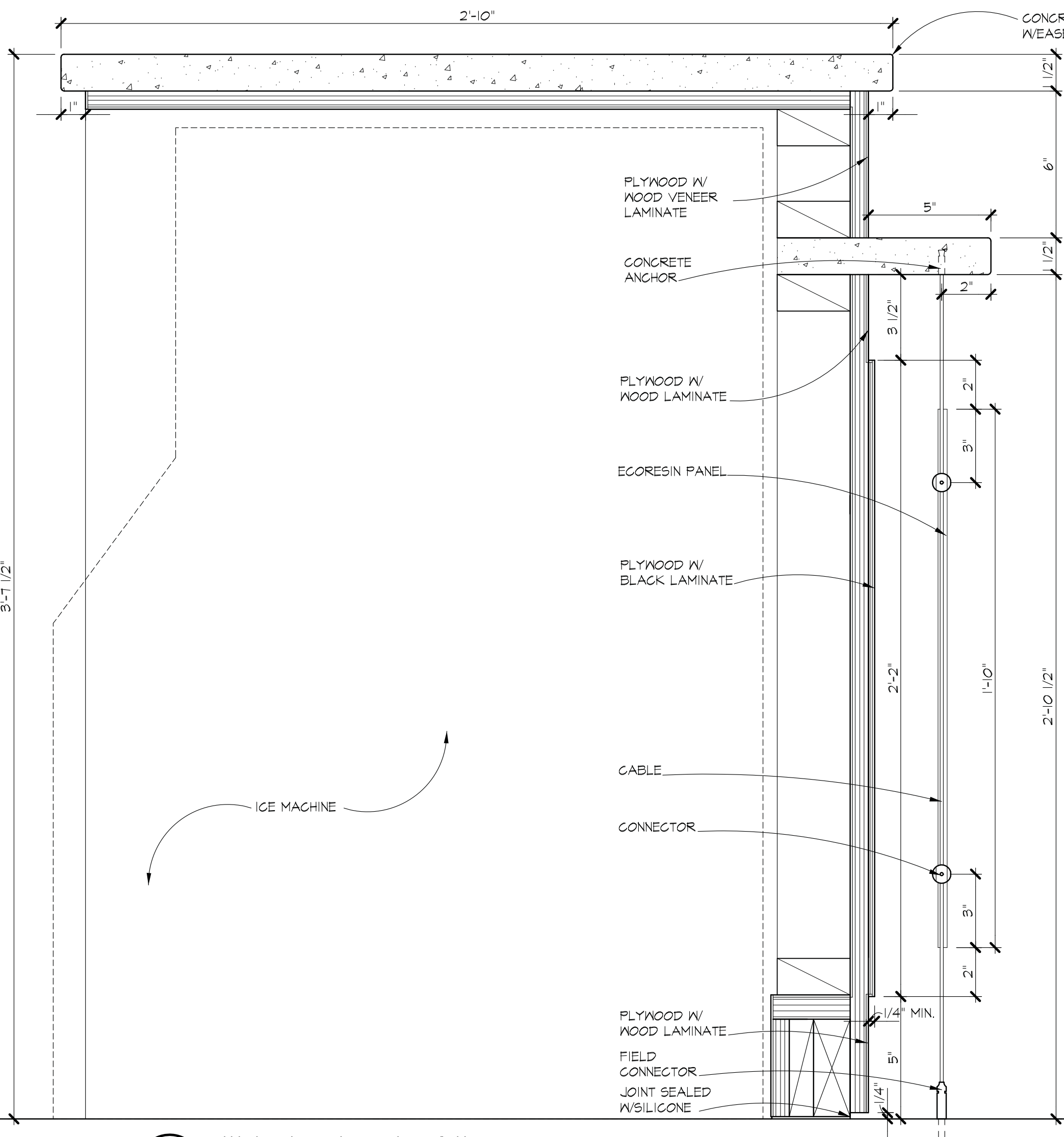
SEALANTS MAY BE USED TO SEAL SERVICE AND UTILITY LINES TO WALLS OR ADJACENT PIECES OF EQUIPMENT WHERE THE SPACING IS CLOSED TO LESS THAN 1/8-INCH.

SEALANTS MAY NOT BE UTILIZED IN FOOD AND SPLASH CONTACT SURFACES TO FILL OPEN SPACES OR VOIDS THAT RESULT DUE TO IMPROPER DESIGN OR FABRICATION. ANY OPENING IN EXCESS OF 1/8-INCH SHALL BE CONSIDERED EXCESSIVE AND MUST BE CLOSED USING PROPER FIELD JOINTS.

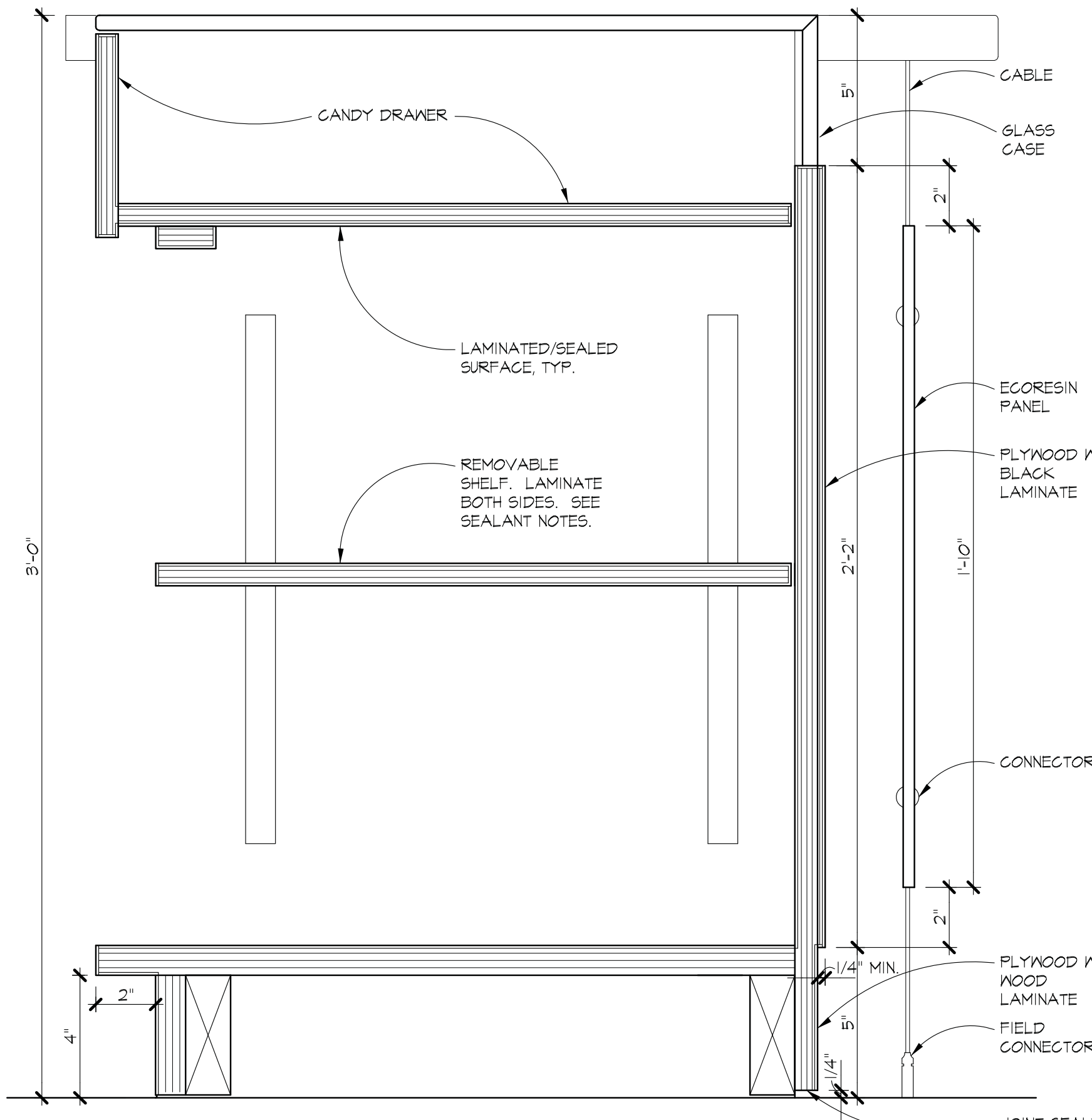
PROPOSED MENU

CONCESSION WILL SERVE:

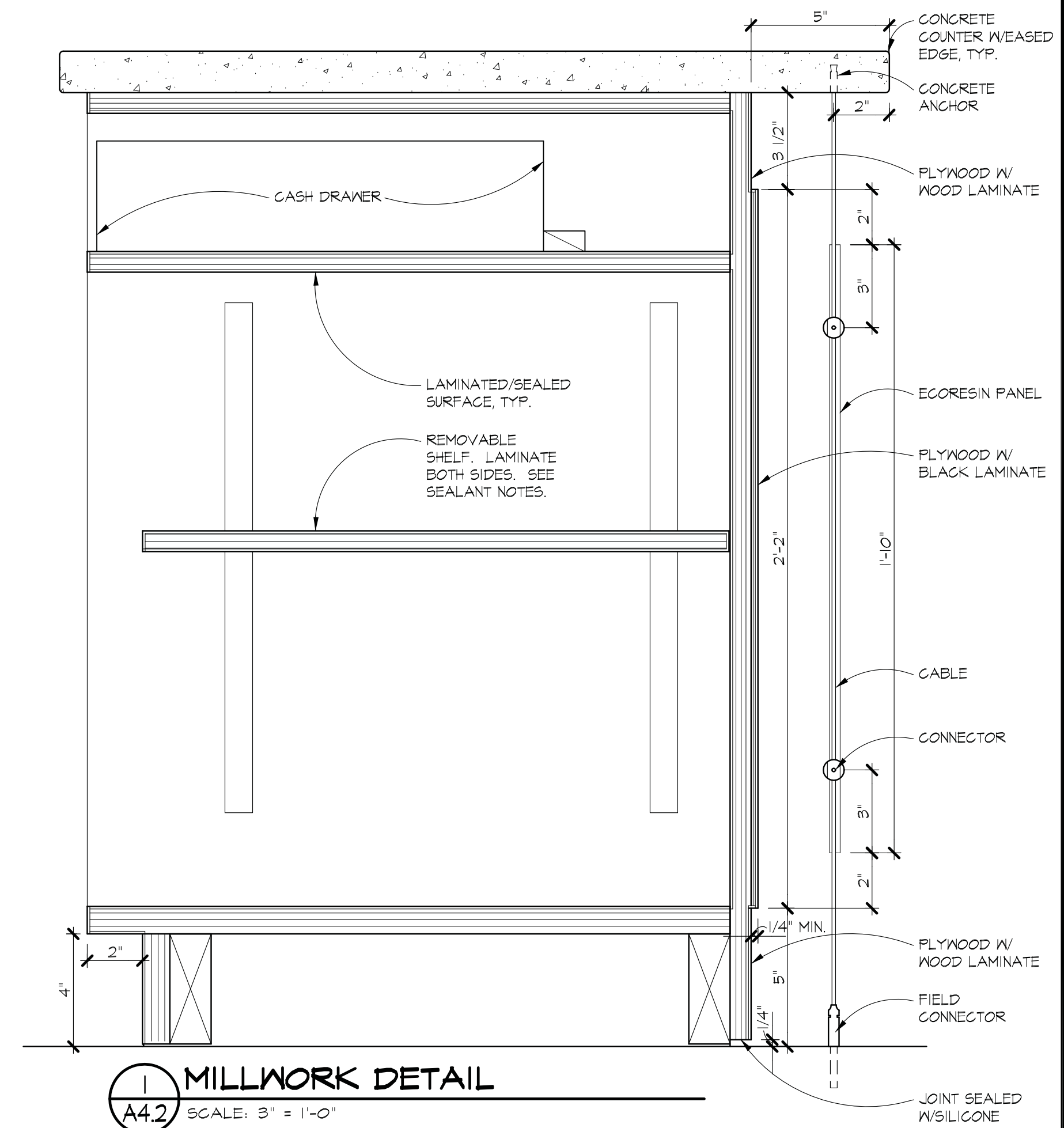
SODA FOUNTAIN BEVERAGES
BOTTLED WATER
POPCORN WITH BUTTER
PRE-PACKAGED CANDY



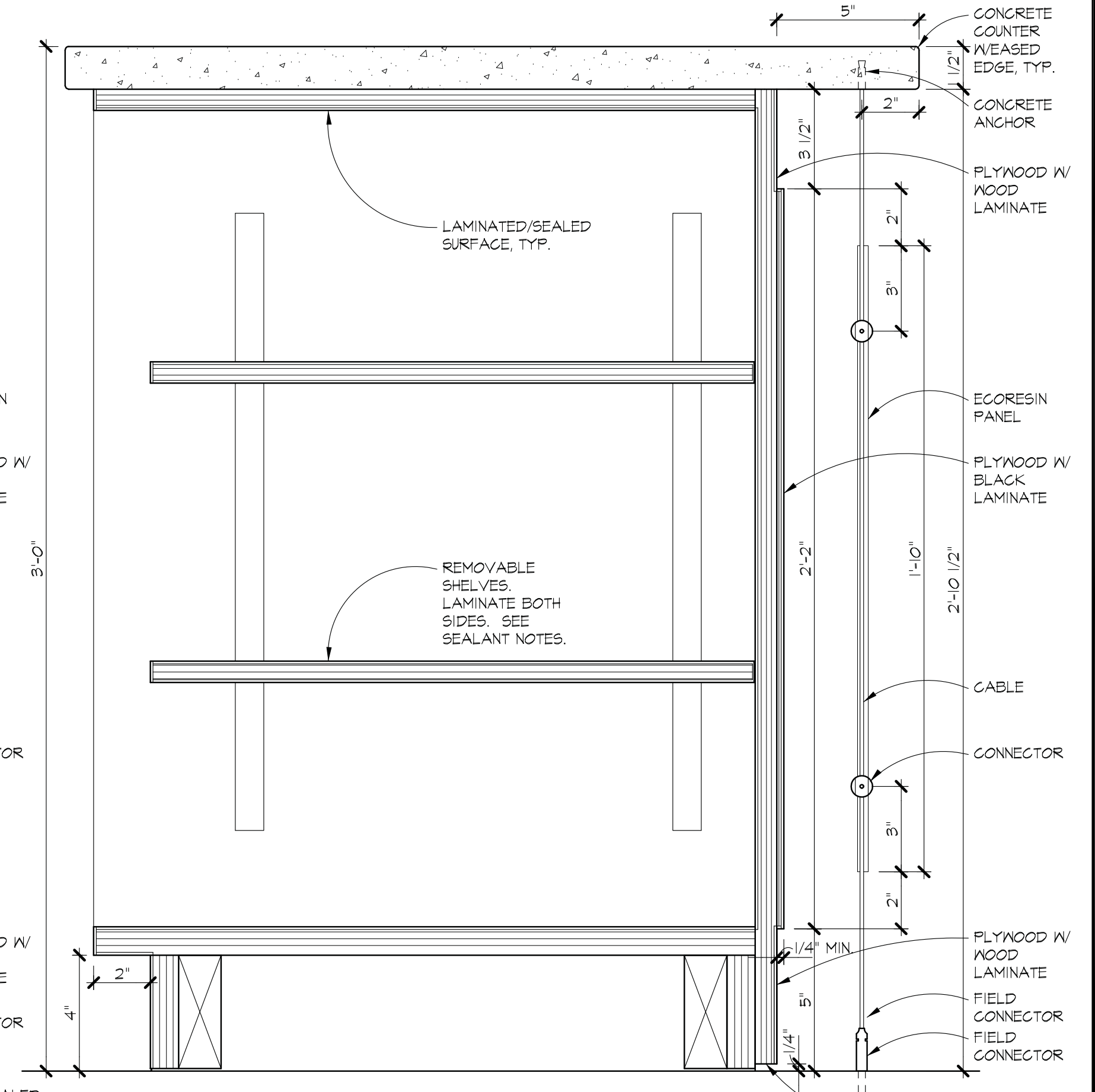
2 MILLWORK DETAIL
A4.2 SCALE: 3" = 1'-0"



3 MILLWORK DETAIL
A4.2 SCALE: 3" = 1'-0"



1 MILLWORK DETAIL
A4.2 SCALE: 3" = 1'-0"



4 MILLWORK DETAIL
A4.2 SCALE: 3" = 1'-0"

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HEALTH DEPARTMENT NOTES &
MILLWORK DETAILS

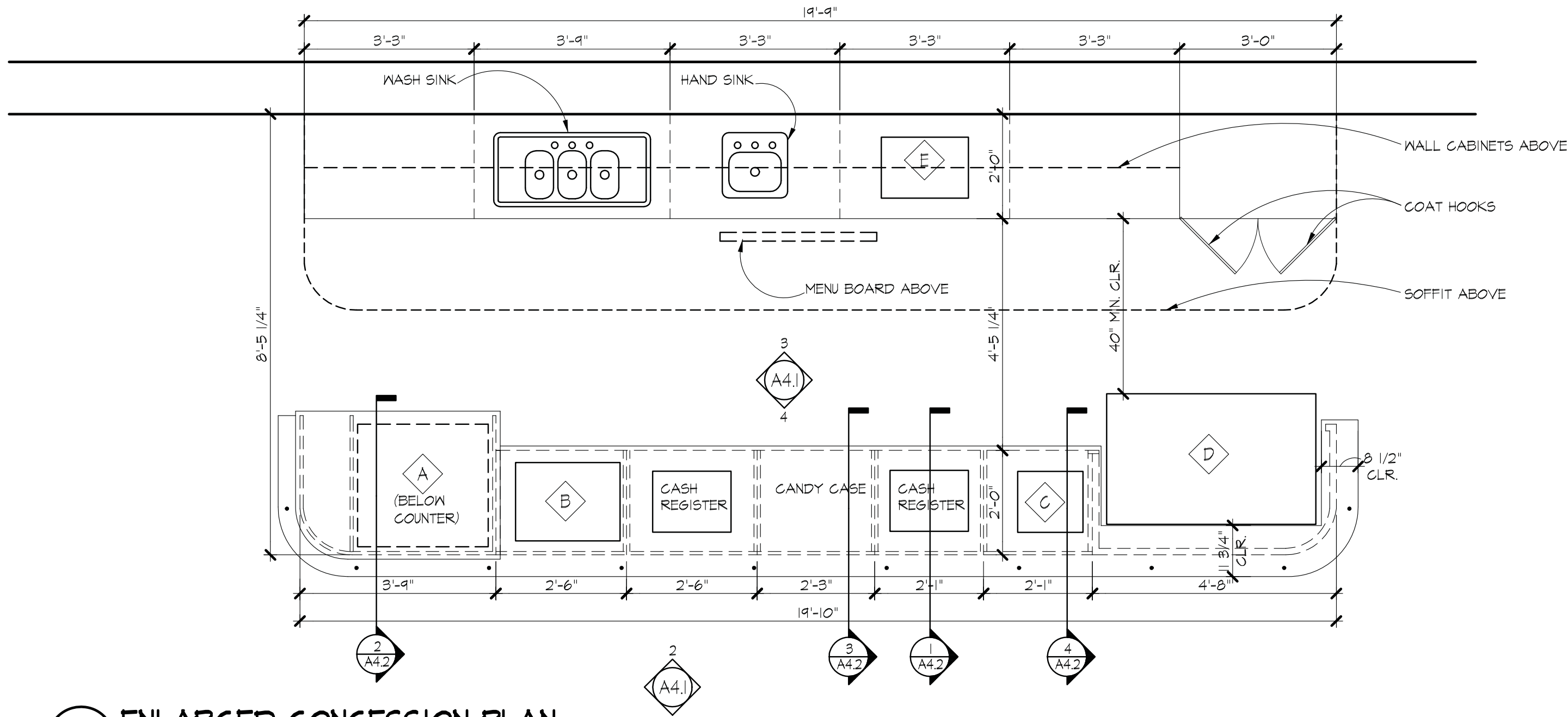
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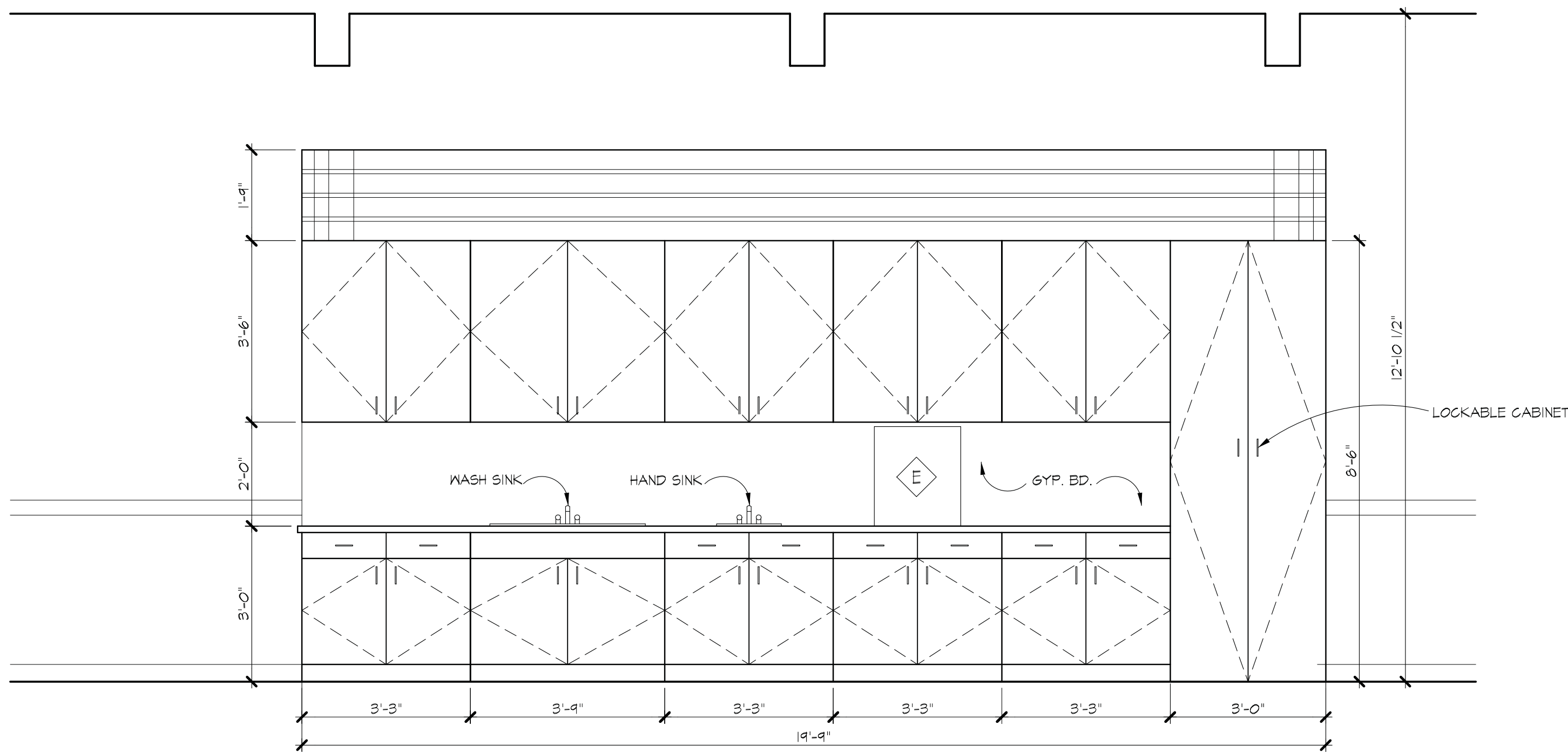
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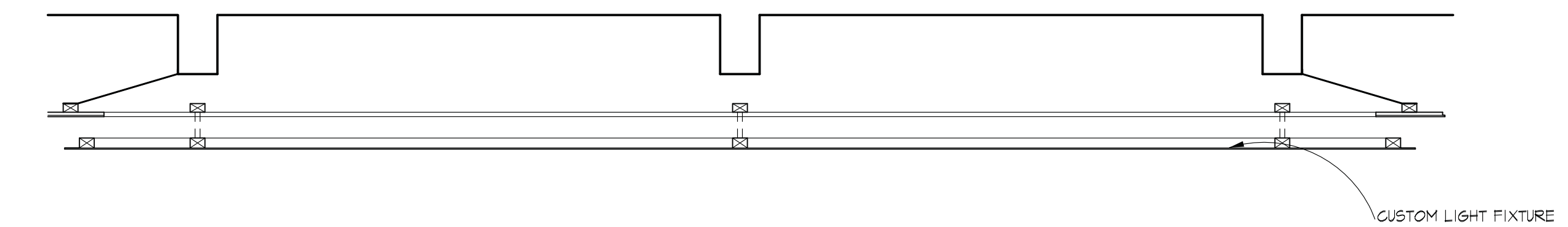
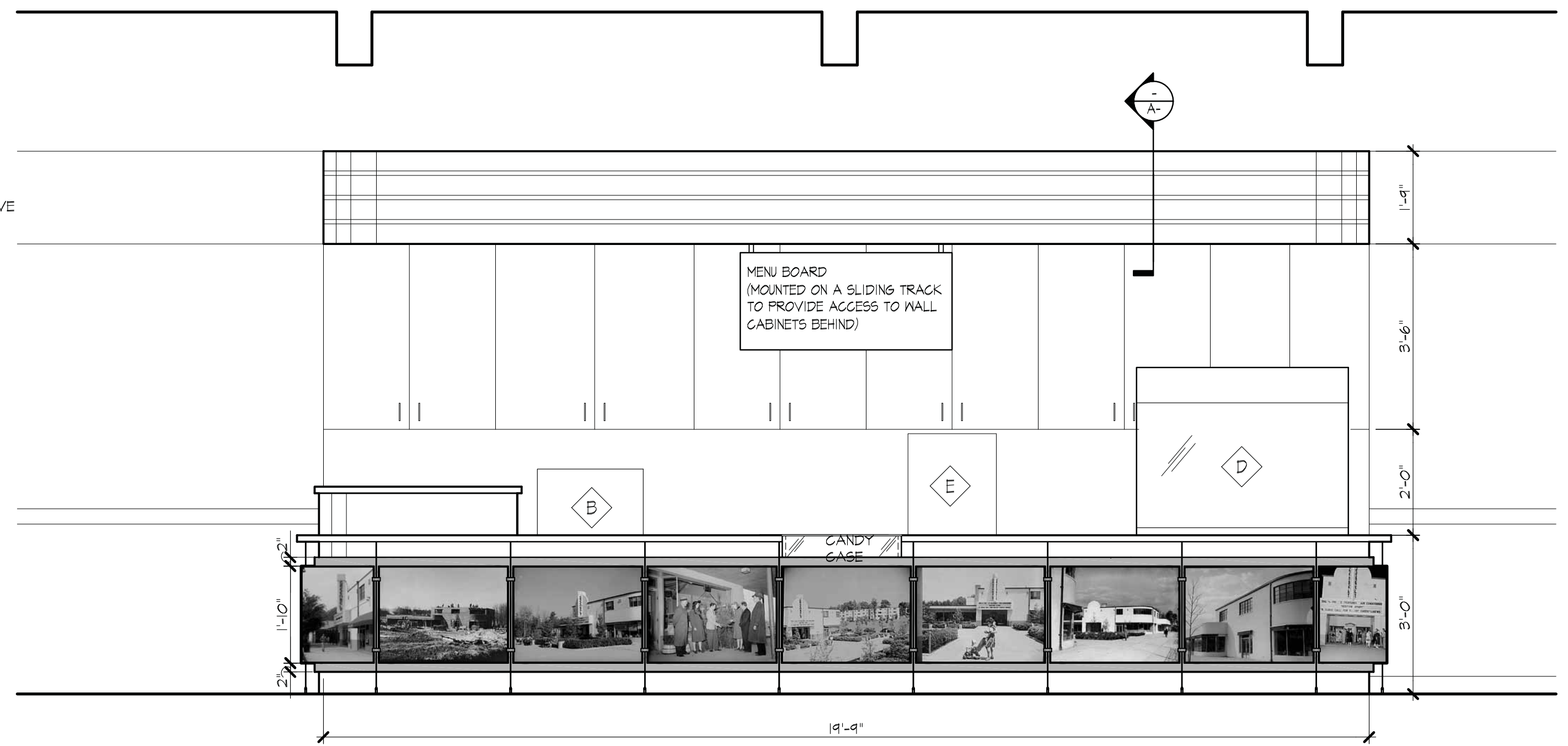


1 ENLARGED CONCESSION PLAN
A4.1 SCALE: 1/2" = 1'-0"

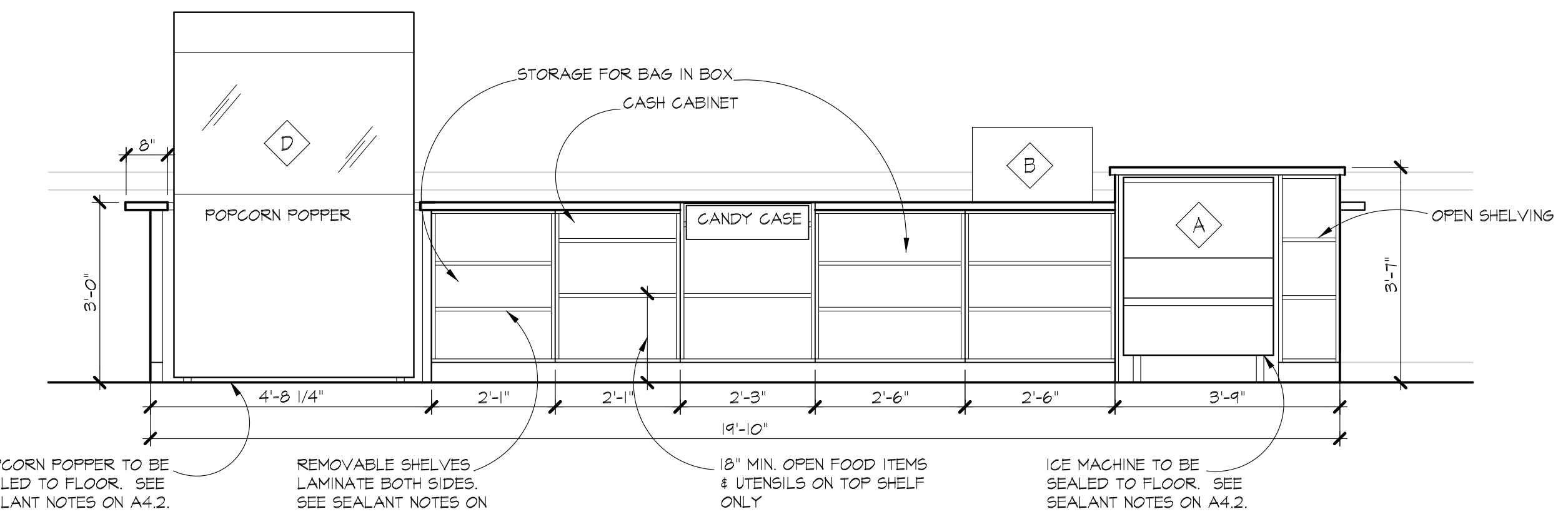


3 INTERIOR ELEVATION (OPTION A)
A4.1 SCALE: 1/2" = 1'-0"

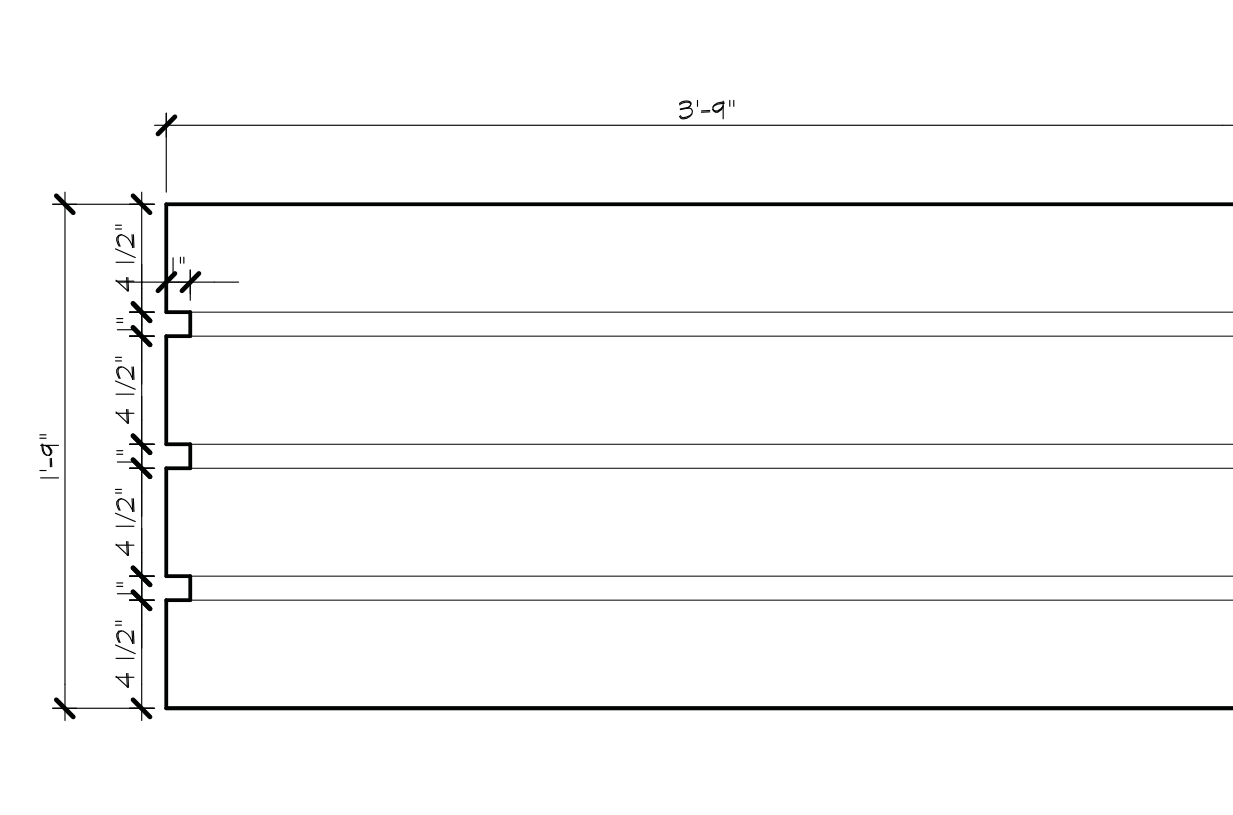
2 INTERIOR ELEVATION
A4.1 SCALE: 1/2" = 1'-0"



4 INTERIOR ELEVATION
A4.1 SCALE: 1/2" = 1'-0"



5 SOFFIT DETAIL
A4.1 SCALE: 1-1/2" = 1'-0"



EQUIPMENT SCHEDULE

TAG	EQUIPMENT	MANUF.	MODEL	COLOR/FINISH	REMARKS
A	ICE MACHINE W/ STORAGE BIN	MANITOWOC	SY-0305W W/ B-10 STORAGE BIN	N/A	EXISTING EQUIPMENT TO REMAIN. SEE ATTACHED CUT SHEETS FOR NSF APPROVALS
B	SODA MACHINE	CORNELIUS	561600167	STAINLESS STEEL	SEE ATTACHED CUT SHEETS FOR NSF APPROVALS
C	BUTTER SERVER	SERVER PRODUCTS, INC.	B5A #05000	STAINLESS STEEL	SEE ATTACHED CUT SHEETS FOR NSF APPROVALS
D	36 OZ. POPCORN MACHINE	GOLD MEDAL PRODUCTS CO.	CORNADO 212BE	STAINLESS STEEL	SEE ATTACHED CUT SHEETS FOR NSF APPROVALS
E	COUNTER TOP BEVERAGE CHILLER	TRUE FOOD SERVICE EQUIPMENT, INC.	GLASS DOOR MERCHANDISER 6DM-3	BLACK	SEE ATTACHED CUT SHEETS FOR NSF APPROVALS

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ENLARGED CONCESSION PLAN
& ELEVATIONS

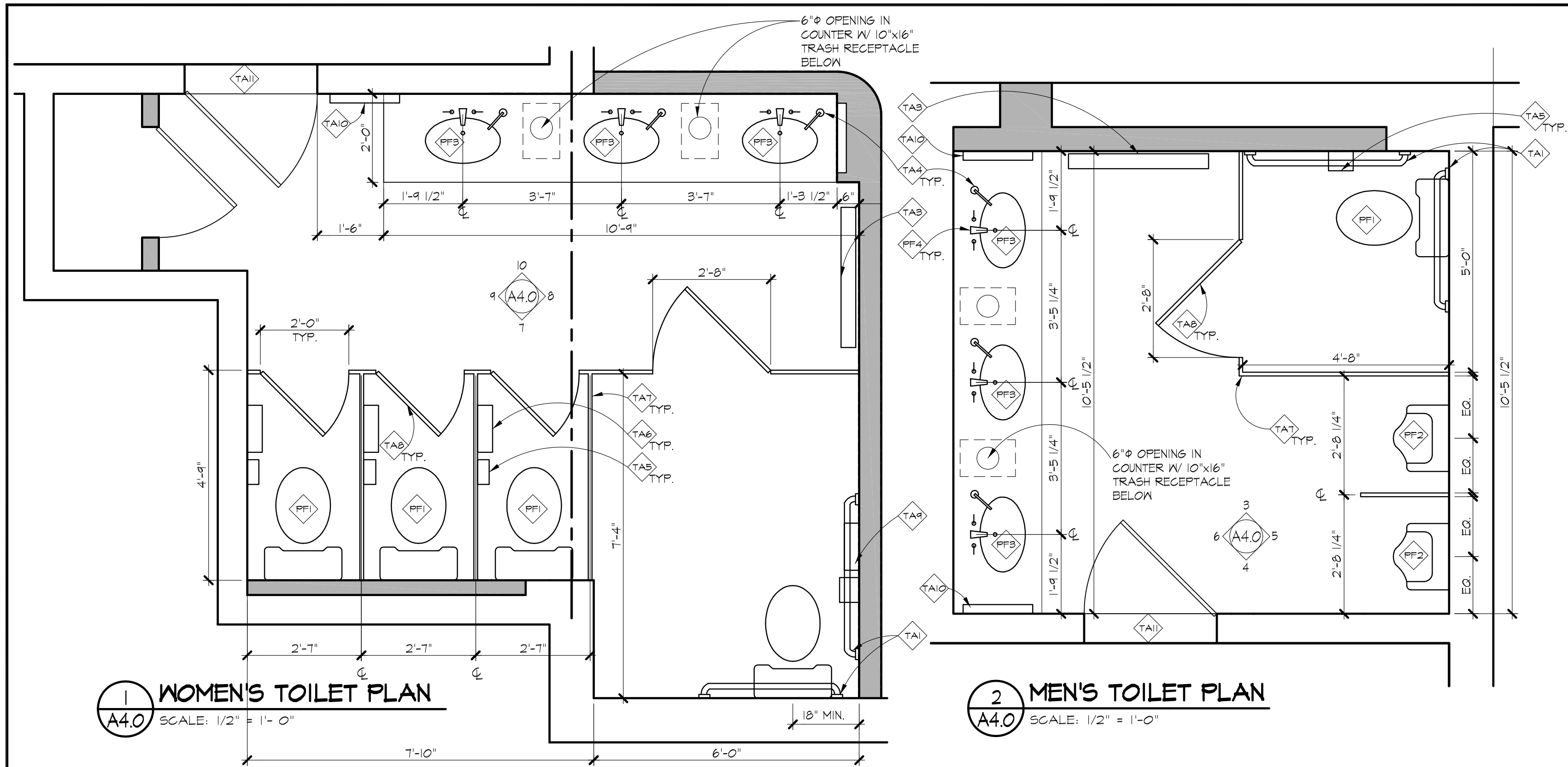
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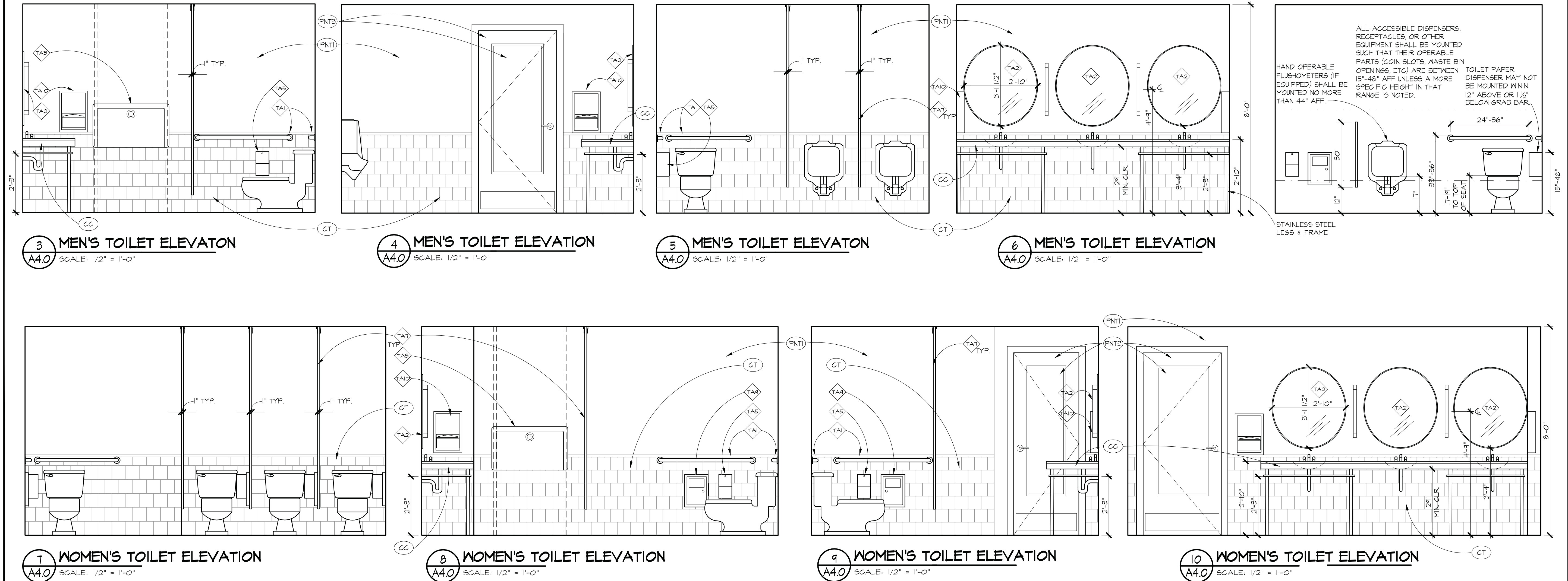
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PLUMBING FIXTURE SCHEDULE						ALL FIXTURES TO BE ADA COMPLIANT					
FIXT TAG	FIXTURE	MANUF.	MODEL/ MODEL #	FINISH	REMARKS	FIXT TAG	FIXTURE	MANUF.	MODEL/ MODEL #	FINISH	REMARKS
PF1	WATER CLOSET FLOOR MOUNTED ONE PIECE	KOHLER	KATHRYN, COMFORT HEIGHT # K3324	WHITE	USE ELONGATED OPEN FRONT SEAT ADA COMPLIANT	PF3	UNDERCOUNTER LAVATORY	KOHLER	DEVONSHIRE, 18" #K-2336	WHITE	NO FAUCET HOES
PF2	URINAL, WALL MOUNTED	KOHLER	FRESHMAN, TOP SPUD #K-4488-T	WHITE	MOUNT W/ RIM NO HIGHER THAN 17" AFF	PF4	LAVATORY FAUCET - WIDESPREAD	KOHLER	MEMOIRS #K-454-4S W/ STATELY DESIGN AND LEVER HANDLES	BRUSHED CHROME	
TOILET ACCESSORY SCHEDULE											
TAG	DESCRIPTION		MFG./MODEL	FINISH	NOTES						
TA1	1 1/2" DIA. STAINLESS STEEL GRAB BAR (@ ADA HEIGHT 36" A.F.F.)		BOBRICK #B-6106-36"W #B-6106-42"W	STAINLESS STEEL SATIN FINISH W/ CONCEALED MOUNTING	INSTALL @ 36" AFF. PROVIDE BLOCKING AS REQUIRED.						
TA2	1/4" FLOAT GLASS MIRROR W/ BEVELED EDGE			MIRROR							
TA3	BABY CHANGING STATION		KOALA CORPORATION #KB10-SSNM	COLOR: STAINLESS. THE UNIT COMES WITH ONE PACKAGE OF SANITARY LINERS LOCATED IN THE BUILT IN SANITARY LINER DISPENSER.							
TA4	LAVATORY MOUNTED LIQUID SOAP DISPENSER		BOBRICK #B22 W/ #B-830.12	STAINLESS STEEL w/ SATIN FINISH							
TA5	TOILET PAPER DISPENSER		BOBRICK #B-2888	STAINLESS STEEL w/ SATIN FINISH	INSTALL @ 24" AFF						
TA6	PARTITION MOUNTED SANITARY NAPKIN DISPOSAL		BOBRICK #B-354	STAINLESS STEEL w/ SATIN FINISH							
TA7	SENTINEL SERIES 400 PARTITIONS AND SCREENS		BRADLEY	STAINLESS STEEL	INSTALL PER MANUFACTURER'S INSTRUCTIONS. FLOOR-MOUNTED OVERHEAD-BRACING						
TA8	CLASSIC SERIES PARTITION ACCESSORY - COATHOOK		BOBRICK ACCESSORY	STAINLESS STEEL w/ SATIN FINISH COATHOOK	SURFACE MOUNT TO THE INTERIOR OF THE PARTITION DOOR						
TA9	SURFACE MOUNTED SANITARY NAPKIN DISPOSAL		BOBRICK #B-254	STAINLESS STEEL w/ SATIN FINISH	SURFACE MOUNT TO WALL						
TA10	RECESSED PAPER TOWEL DISPENSER		BOBRICK #B-35403	STAINLESS STEEL w/ SATIN FINISH	SURFACE MOUNT TO WALL						
TA11	MARBLE THRESHOLD				ADA COMPLIANT						



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SUITE 700
BETHESDA, MD 20814
(240)333-2000
(240)333-2001 FAX

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ENLARGED TOILET PLANS

CITY OF GREENBELT
GREENBELT THEATER
RENOVATION

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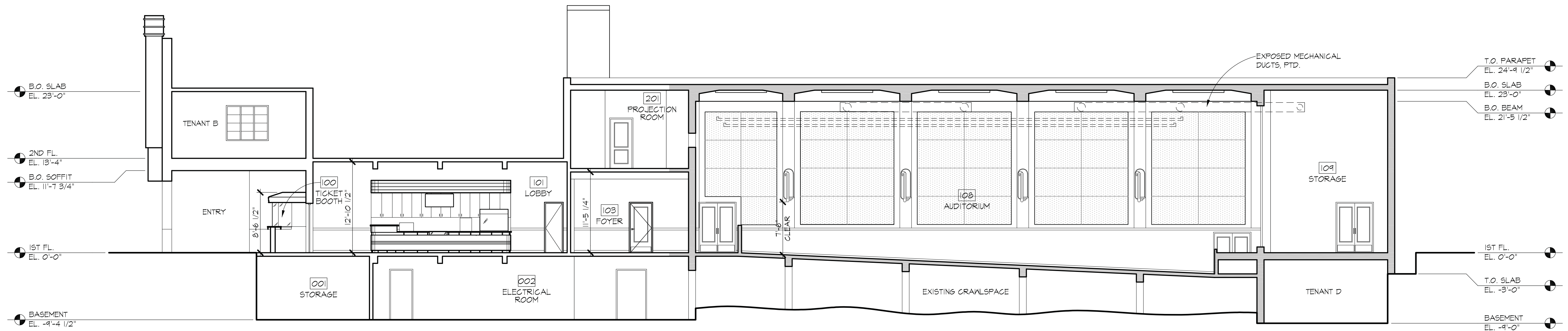
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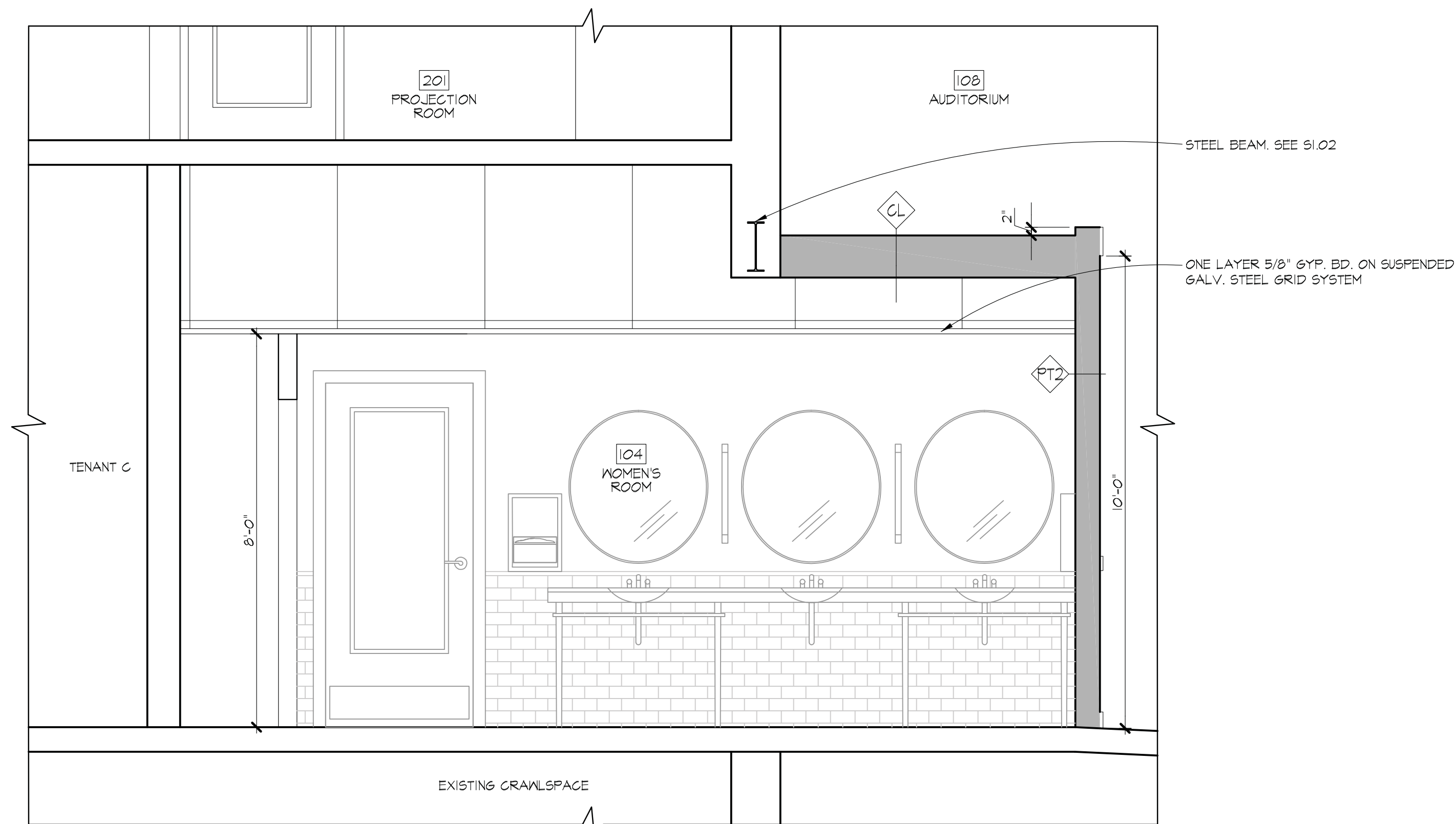
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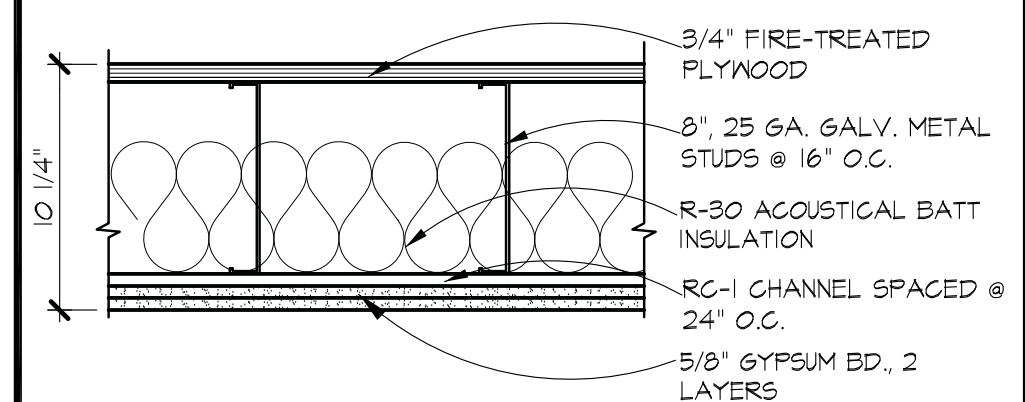


1 BUILDING SECTION
A3.0 SCALE: 1/8" = 1'-0"



2 PARTIAL BUILDING SECTION
A3.0 SCALE: 1/2" = 1'-0"

CEILING TYPES



CL CEILING
SCALE: 1-1/2" = 1'-0"

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BUILDING SECTION

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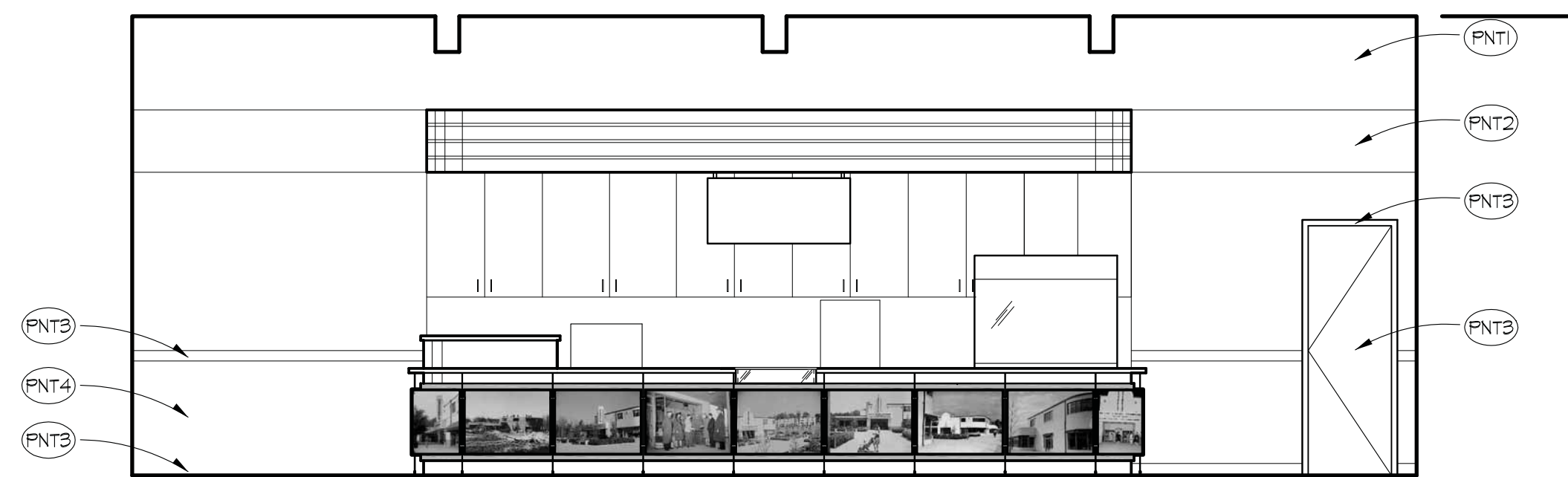
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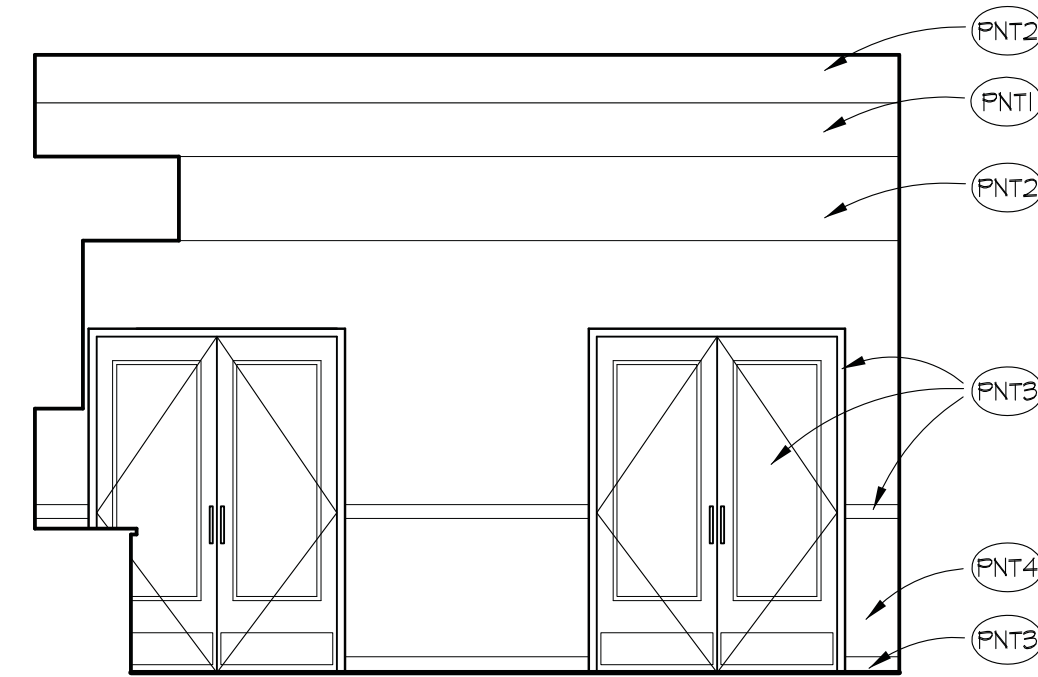
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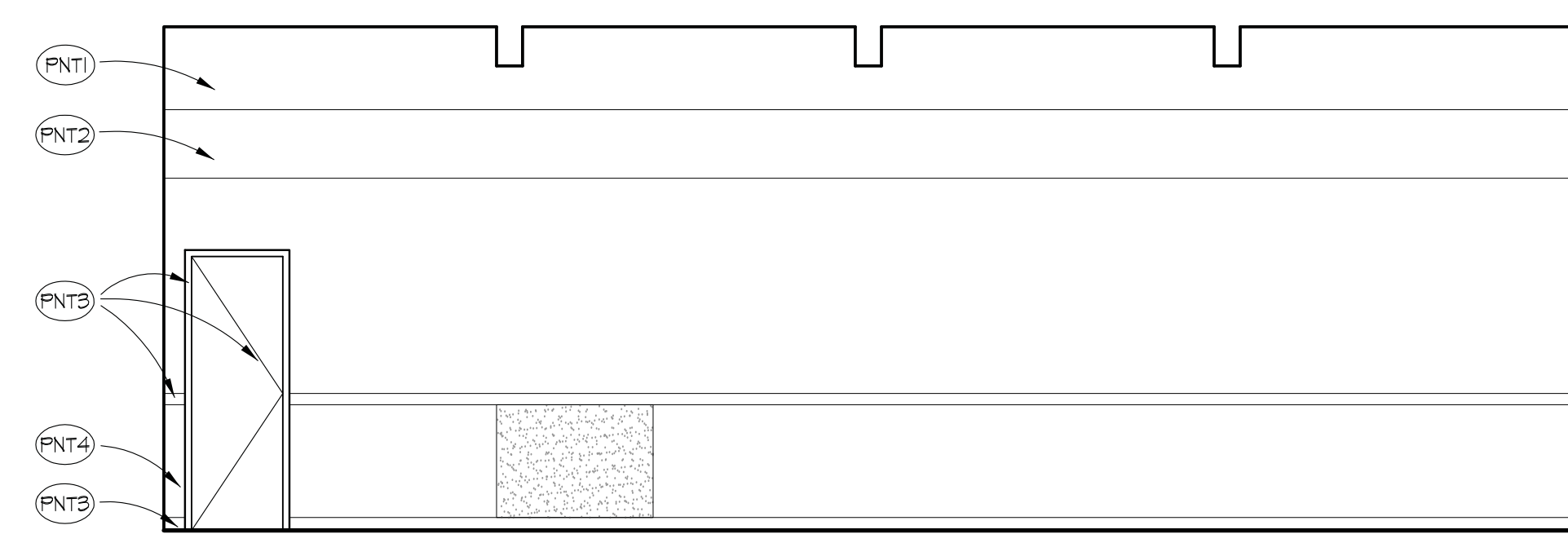
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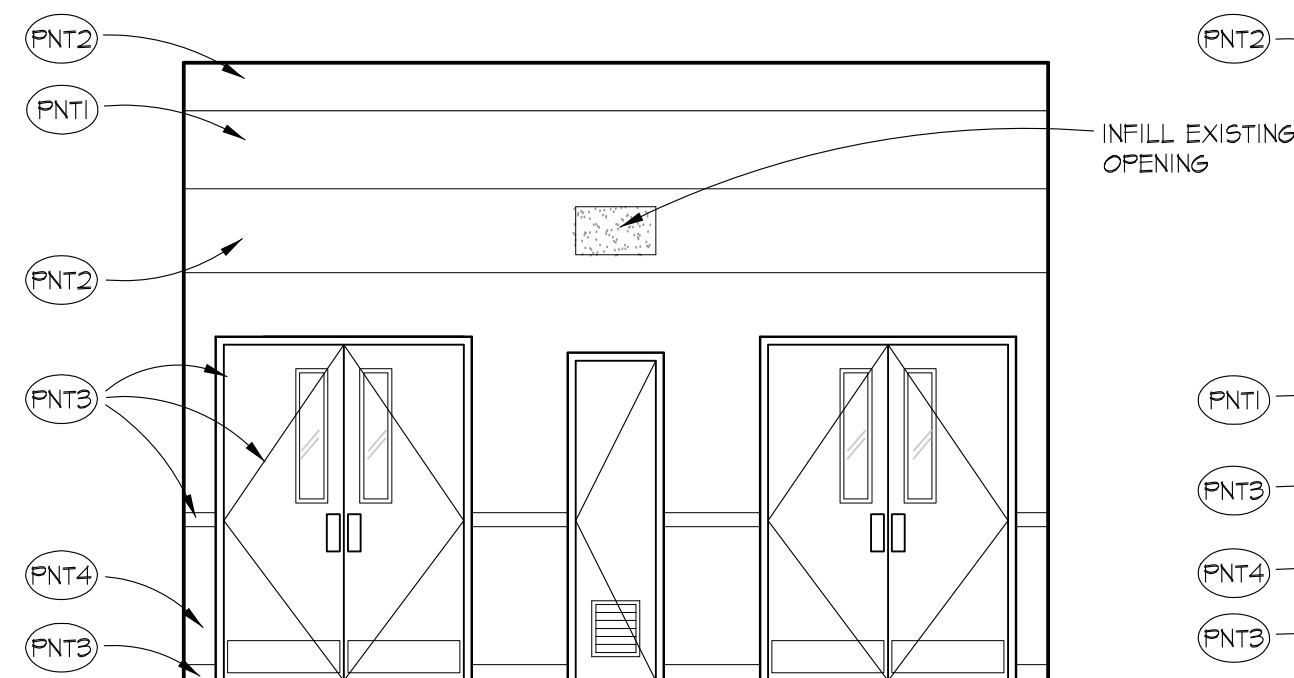
1 LOBBY ELEVATION
A2.1 SCALE: 1/4" = 1'-0"



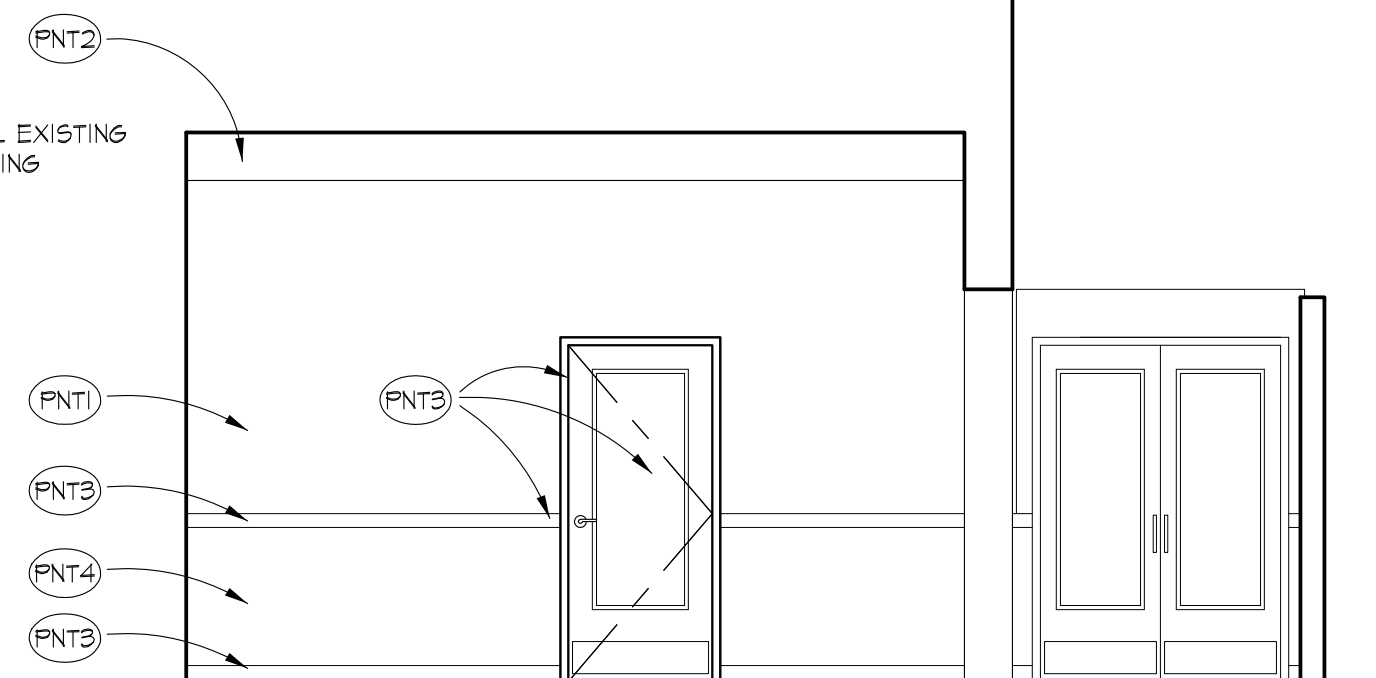
2 LOBBY ELEVATION
A2.1 SCALE: 1/4" = 1'-0"



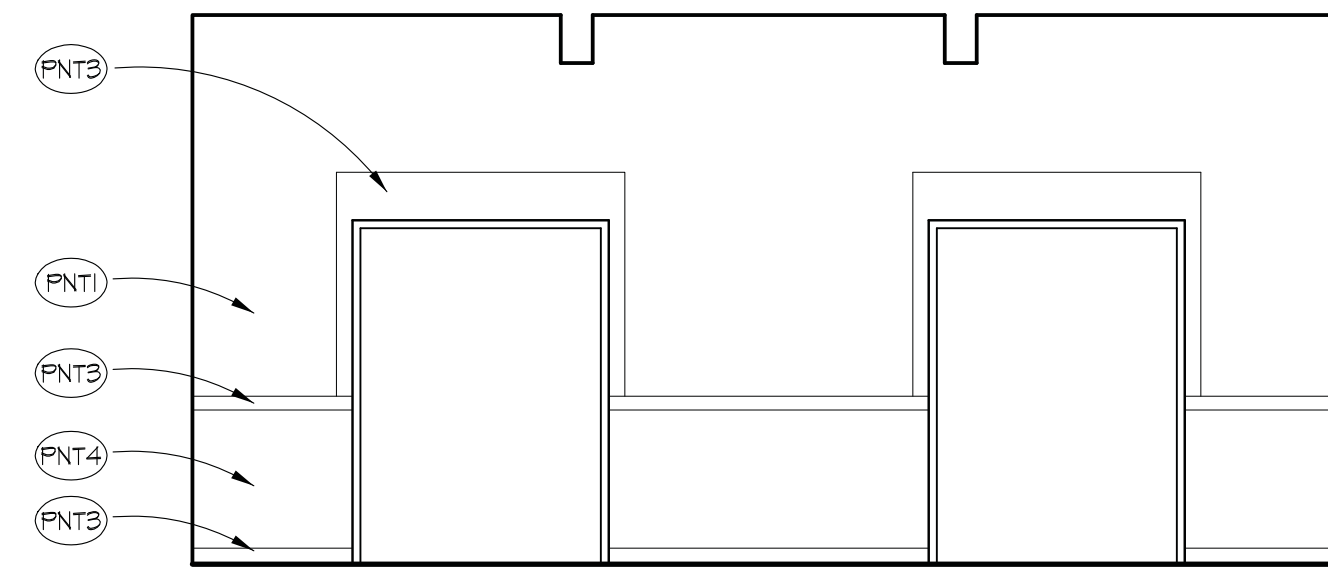
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A2.1 SCALE: 1/4" = 1'-0"



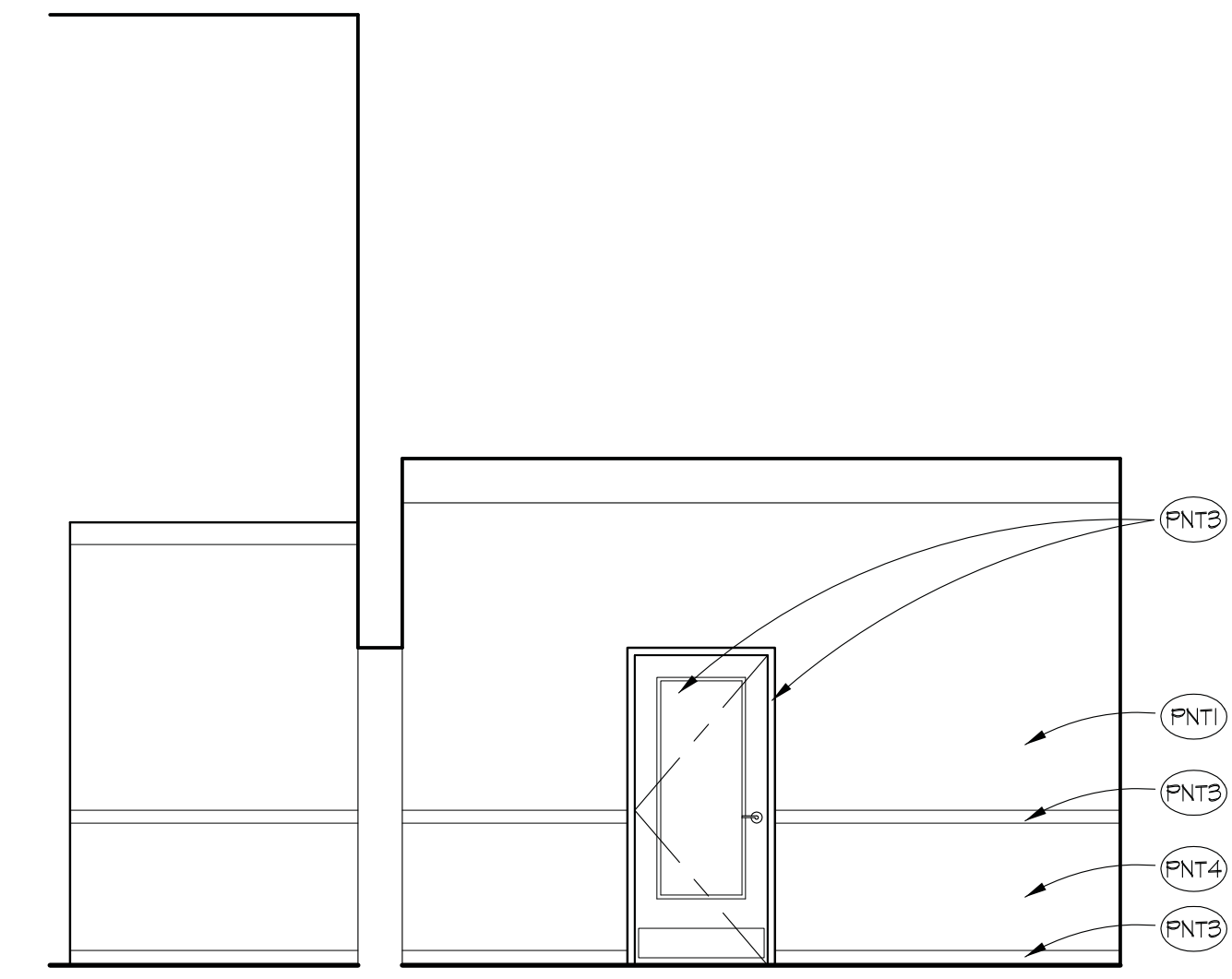
4 LOBBY ELEVATION
A2.1 SCALE: 1/4" = 1'-0"



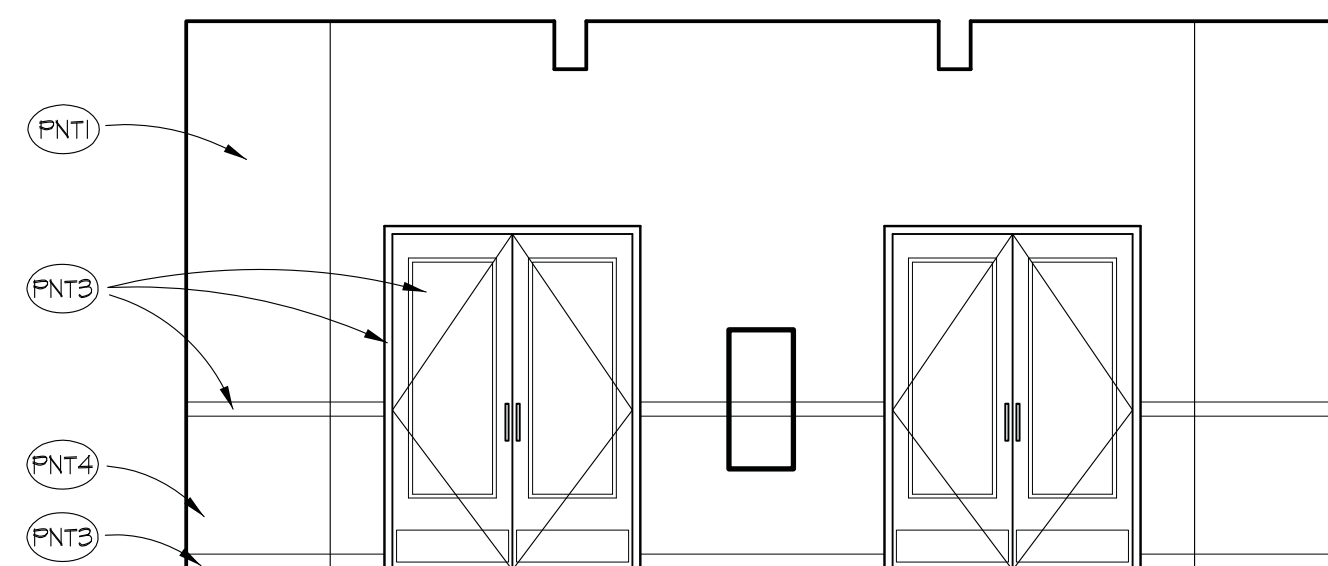
5 FOYER & PARTIAL AUDITORIUM ELEVATION
A2.1 SCALE: 1/4" = 1'-0"



6 FOYER ELEVATION
A2.1 SCALE: 1/4" = 1'-0"



7 FOYER & PARTIAL AUDITORIUM ELEVATION
A2.1 SCALE: 1/4" = 1'-0"



8 INTERIOR ELEVATION
A2.1 SCALE: 1/4" = 1'-0"

FINISH SCHEDULE			
FINISH	DESCRIPTION	FINISH	DESCRIPTION
PNT1	BENJAMIN MOORE "PEARL HARBOR" #2165-50 SEMI GLOSS	CT	ROYAL MOSA "CANTO SERIES" #T180 8"X8" CERAMIC TILES PER ELEVATIONS - DAN PANCHURA @ 1-800-422-6860x4409
PNT2	CUSTOM MUNSELL COLOR 5Y 8/1		
PNT3	BENJAMIN MOORE "POTTERY RED" #2085-20 SEMI GLOSS	CC	CONCRETE COUNTER MOCHRE STANDARD COLOR BY CONCRETE JUNGLE
PNT4	BENJAMIN MOORE #2134-10 SEMI GLOSS		

GENERAL NOTES:

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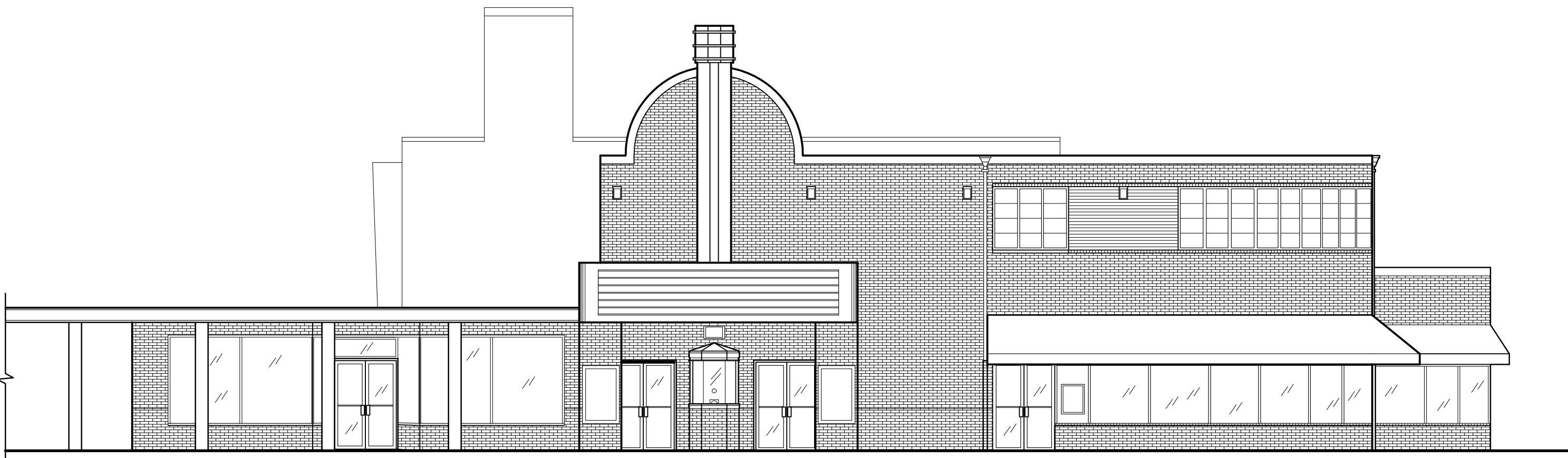
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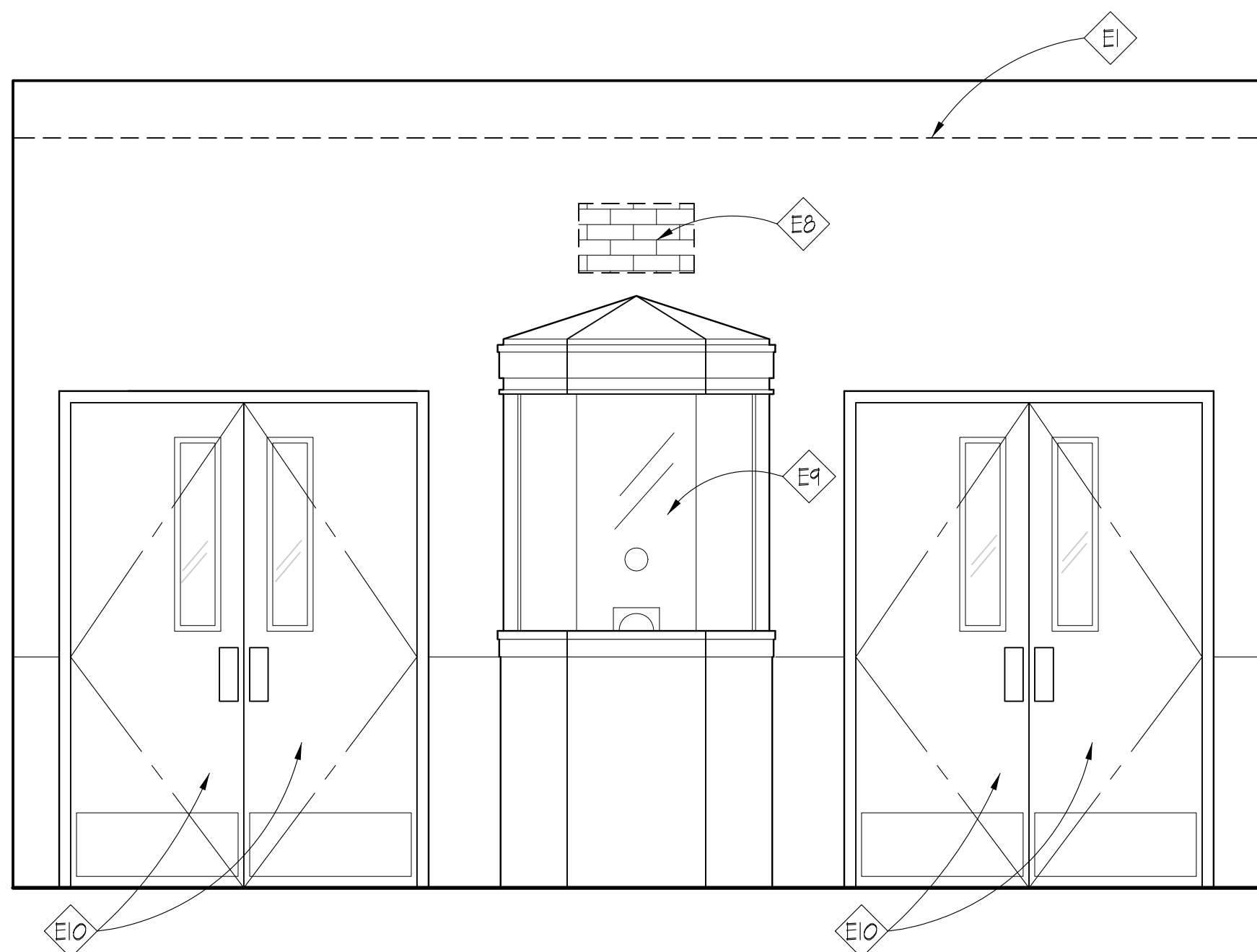
INTERIOR ELEVATIONS

CITY OF GREENBELT
GREENBELT THEATER
RENOVATION

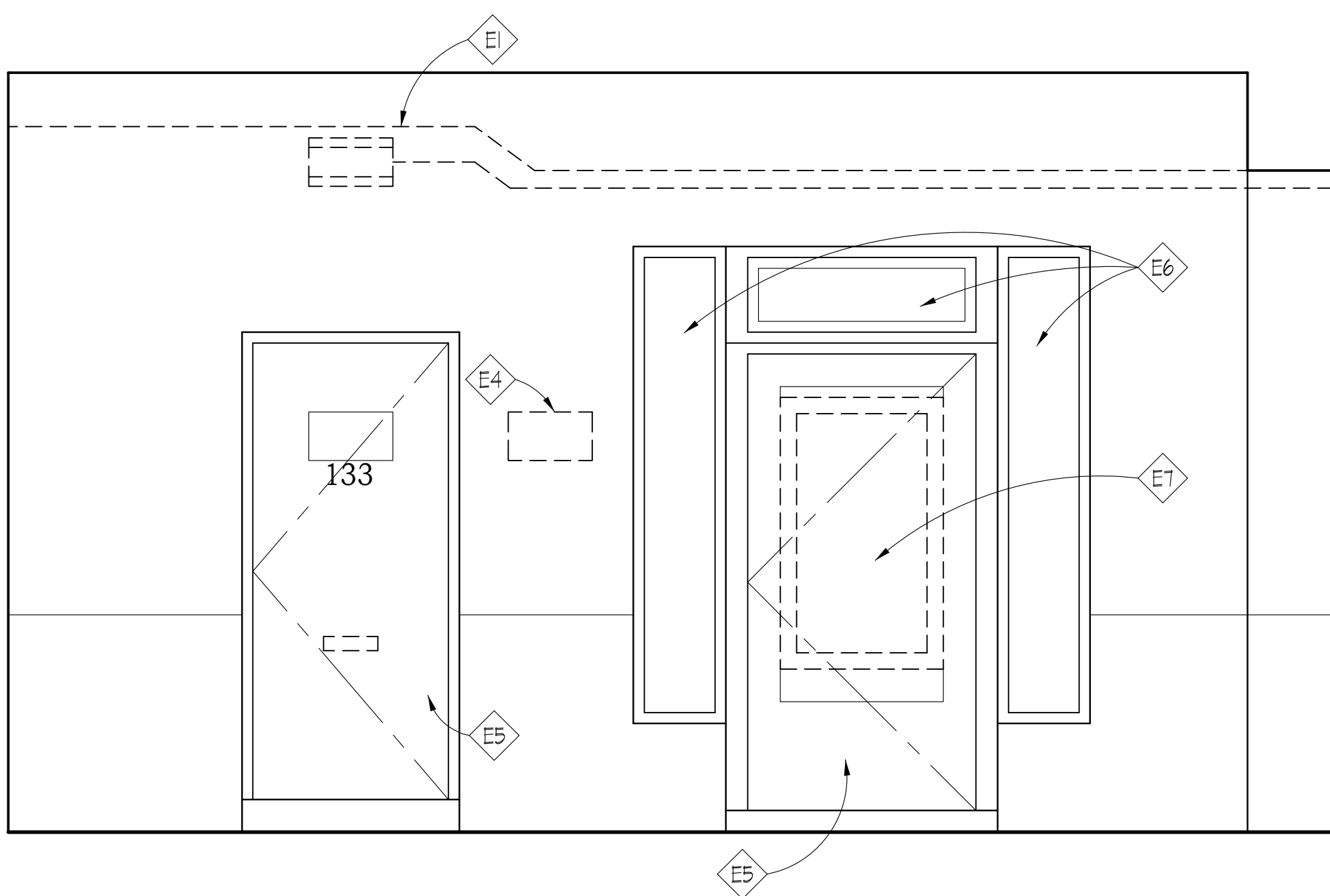
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1 EXISTING EXTERIOR ELEVATION (SOUTH)
A2.0 SCALE: 1/8" = 1'-0"



2 PARTIAL ENTRY ELEVATION (SOUTH)
A2.0 SCALE: 1/2" = 1'-0"



3 PARTIAL ENTRY ELEVATION (EAST)
A2.0 SCALE: 1/2" = 1'-0"

ELEVATION NOTES

- E1 REMOVE EXISTING LIGHT FIXTURE AND CONDUIT. REQUEST PERMISSION FROM LANDLORD BEFORE REMOVING.
- E2 EXISTING SIGN TO REMAIN.
- E3 CHROME ADDRESS NUMBERS.
- E4 REMOVE EXISTING ADDRESS PLATE.
- E5 EXISTING DOOR TO REMAIN.
- E6 FROSTED GLASS TO MATCH EXISTING.
- E7 REMOVE EXISTING SIGN BOX AND REPLACE WITH FROSTED GLASS.
- E8 REMOVE EXISTING AIR CONDITIONING UNIT, INFILL WITH BRICK TO MATCH EXISTING. PAINT TO MATCH EXISTING.
- E9 REMOVE EXISTING FLEXI-GLASS AND REPLACE WITH GLAZING SYSTEM. SEE DWG. A5.0
- E10 REMOVE EXISTING STOREFRONT DOORS AND REPLACE WITH WOOD DOORS.

GENERAL NOTES

- ALL MATERIALS TO BE NEW UNLESS NOTED "SALVAGED" OR "EXISTING."
- ALTERNATE: REPLACE MAIL SLOT, LOCK, AND HARDWARE, RELOCATE CLOSER, TO BE SELECTED BY ARCHITECT.

GTM

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GREENBELT, MD 20770
EXTERIOR ELEVATIONS

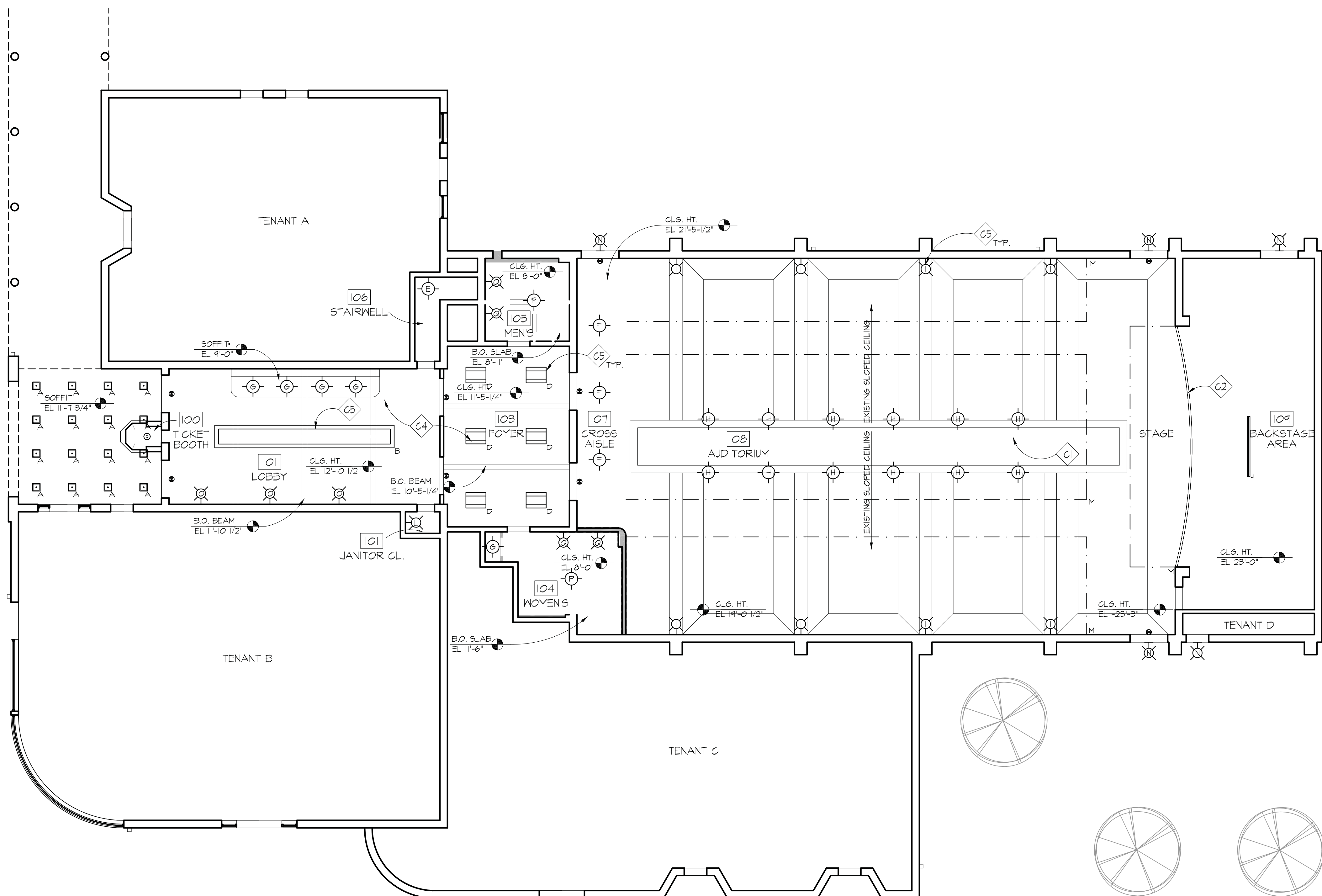
CITY OF GREENBELT
GREENBELT THEATER
RENOVATION

REVISIONS:
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A2.0



REFLECTED CEILING PLAN
A1.4 SCALE: 1/8" = 1'-0"

LIGHTING LEGEND

SYMBOL	DESCRIPTION
	MODIFY EXISTING RECESSED FIXTURE W/ NEW DROPPED DIFFUSER
	CUSTOM FIXTURE
	SURFACE MOUNTED FLUORESCENT FIXTURE
	CUSTOM FIXTURE W/ 85W HIGH OUTPUT WARM WHITE, SINGLE T-12 FLUORESCENT LAMP 3000K COLOR (DIA. 1 1/2" LENGTH 12")
	EXISTING SURFACE MOUNTED LIGHT FIXTURE
	INCANDESCENT OPEN DOWNLIGHT
	FLUORESCENT DOWNLIGHT
	150W LIGHTS ON SUSPENDED METAL TRACK
	CUSTOM SCENCE W/ FLUORESCENT LAMP
	EXISTING FLUORESCENT FIXTURE
	RECESSED 2X2 FLUORESCENT FIXTURE
	EXISTING WALL MOUNTED FIXTURE
	FLOOR MOUNTED EMERGENCY STRIP LIGHTING ALONG THEATER AISLES
	EXISTING UTILITY WALL SCENCE
	CUSTOM FLUORESCENT LIGHT FIXTURE
	CEILING MOUNTED FIXTURE
	SCENCE BY AAMSCO, ALINEA ES #9024 WITH ART DECO STEP CAP. PLEASE CONTACT ED KATZ @ 301-610-0591.
	GYP. BD. CEILING

CEILING NOTES

- SUPPLY DUCT ABOVE, SEE MEP DWGS.
- EXISTING MOVIE SCREEN.
- SUSPENDED METAL TRACK FOR LIGHTS.
- REPAIR/PATCH/PT. EXISTING CONCRETE CEILING.
- CUSTOM FIXTURE, SEE DETAILS A4.3.

GENERAL NOTES

- COORDINATE LIGHTING LEGEND W/ LIGHTING SCHEDULE ON ELECTRICAL DWGS.
- CONTRACTOR TO COORDINATE LOCATIONS OF ALL FIXTURES WITH ARCHITECT PRIOR TO INSTALLATION. CONTRACTOR RESPONSIBLE FOR RELOCATION OF ANY FIXTURE NOT COORDINATED WITH ARCHITECT PRIOR TO INSTALLATION.



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REFLECTED CEILING PLAN

CITY OF GREENBELT

**GREENBELT THEATER
RENOVATION**

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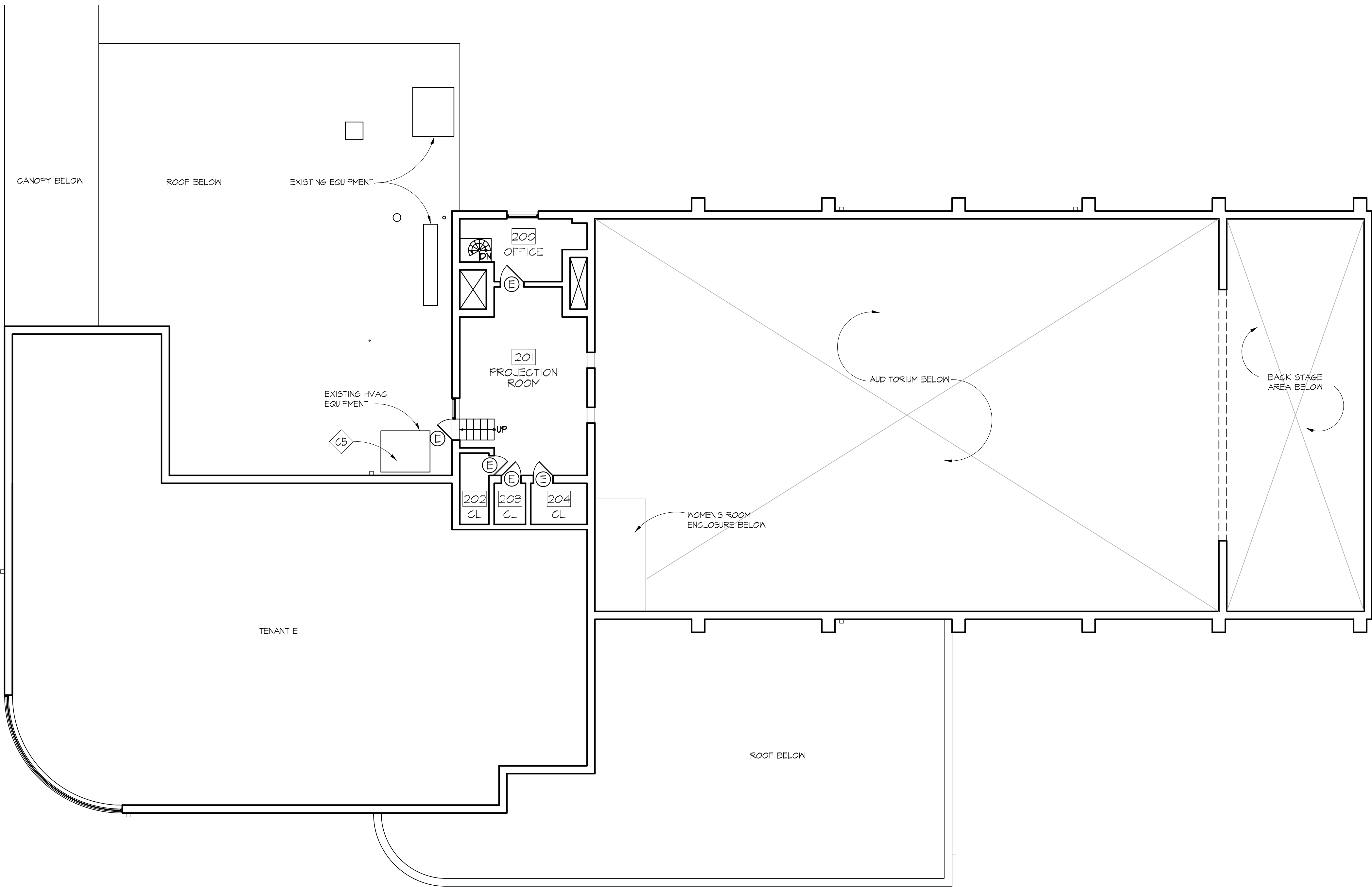
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A1.4



A1.3



1 SECOND FLOOR PLAN
A1.2 SCALE: 1/8" = 1'-0"

CONSTRUCTION NOTES

- C1 SEE MEP DRAWINGS FOR LOCATION & SIZE OF EQUIPMENT
- C2 CONCRETE RAMP, SEE S1.02.
- C3 METAL HANDRAIL/GUARDRAIL, PTD.
- C4 STEEL BEAM, SEE STRUCTURAL DWGS.
- C5 EXISTING MECHANICAL EQUIPMENT TO BE RELOCATED. COORDINATE WITH TENANT.

GENERAL NOTES

- SEE PARTITION TYPES SHEET A6.0 FOR RATED PARTITIONS AND FLOOR/CEILING REQUIRING UL RATINGS.

LEGEND

- EXISTING WALL/ELEMENT TO REMAIN
- NEW STUD WALL
- NEW BRICK INFILL

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SECOND FLOOR PLAN

CITY OF GREENBELT GREENBELT THEATER RENOVATION

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DRAWING NO.

A1.2



G1	SEE MEP DRAWINGS FOR LOCATION & SIZE OF EQUIPMENT
G2	NOT USED.
G3	NOT USED.
G4	STEEL BEAM ABOVE, SEE STRUCTURAL DWGS.
G5	EXISTING MECHANICAL EQUIPMENT TO BE RELOCATED. COORDINATE WITH TENANT.

RC-1 CHANNEL SPACED @ 24" O.C. W/ 2 LAYERS 1/2" GYP. BD.
 3 5/8" 25 GA. GALV.
 METAL STUFS @ 24" O.C. TO STRUCTURE ABOVE
 W/ST. RUNNERS @ TOP & BOTTOM
 3 1/2" ACUSTICAL BATT INSULATION
 1/2" GYPSUM BD. 2 LAYERS, FULL HT. OF WALL. PROVIDE 1/2" CEMENT BD. BEHIND TILE FINISH.

SCALE: 1-1/2" = 1'-0"

SCALE: 1-1/2" = 1'-0"

EXISTING WALL/ELEMENT TO REMAIN

NEW STUD WALL

NEW BRICK INFILL

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7735 OLD GEORGETOWN ROAD
SUITE 700
BETHESDA, MD 20814
(240)333-2000
(240)333-2001 FAX

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FIRST FLOOR PLAN

CITY OF GREENBELT GREENBELT THEATER RENOVATION

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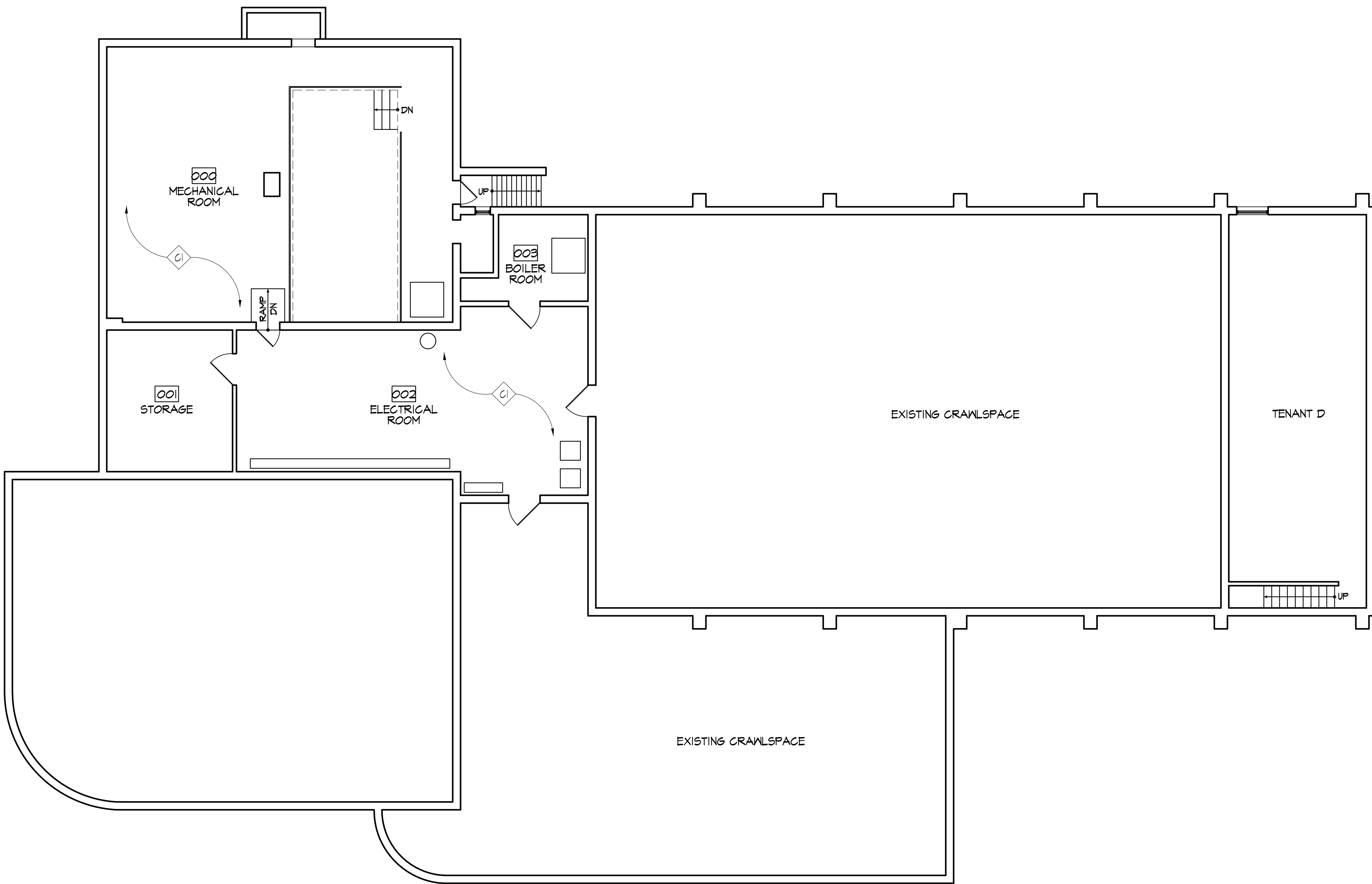
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DRAWING NO.

A1.1



BASEMENT FLOOR PLAN
SCALE: 1/8" = 1'-0"

CONSTRUCTION NOTES

CI SEE MEP DRAWINGS FOR LOCATION & SIZE OF EQUIPMENT

GENERAL NOTES

1. SEE PARTITION TYPES SHEET A6.0 FOR RATED PARTITIONS AND FLOOR/CEILING REQUIRING UL RATINGS.

LEGEND

- EXISTING WALL/ELEMENT TO REMAIN
- NEW STUD WALL
- NEW BRICK INFILL

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SUITE 700
BETHESDA, MD 20814
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(240)333-2001 FAX

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BASEMENT FLOOR PLAN

**CITY OF GREENBELT
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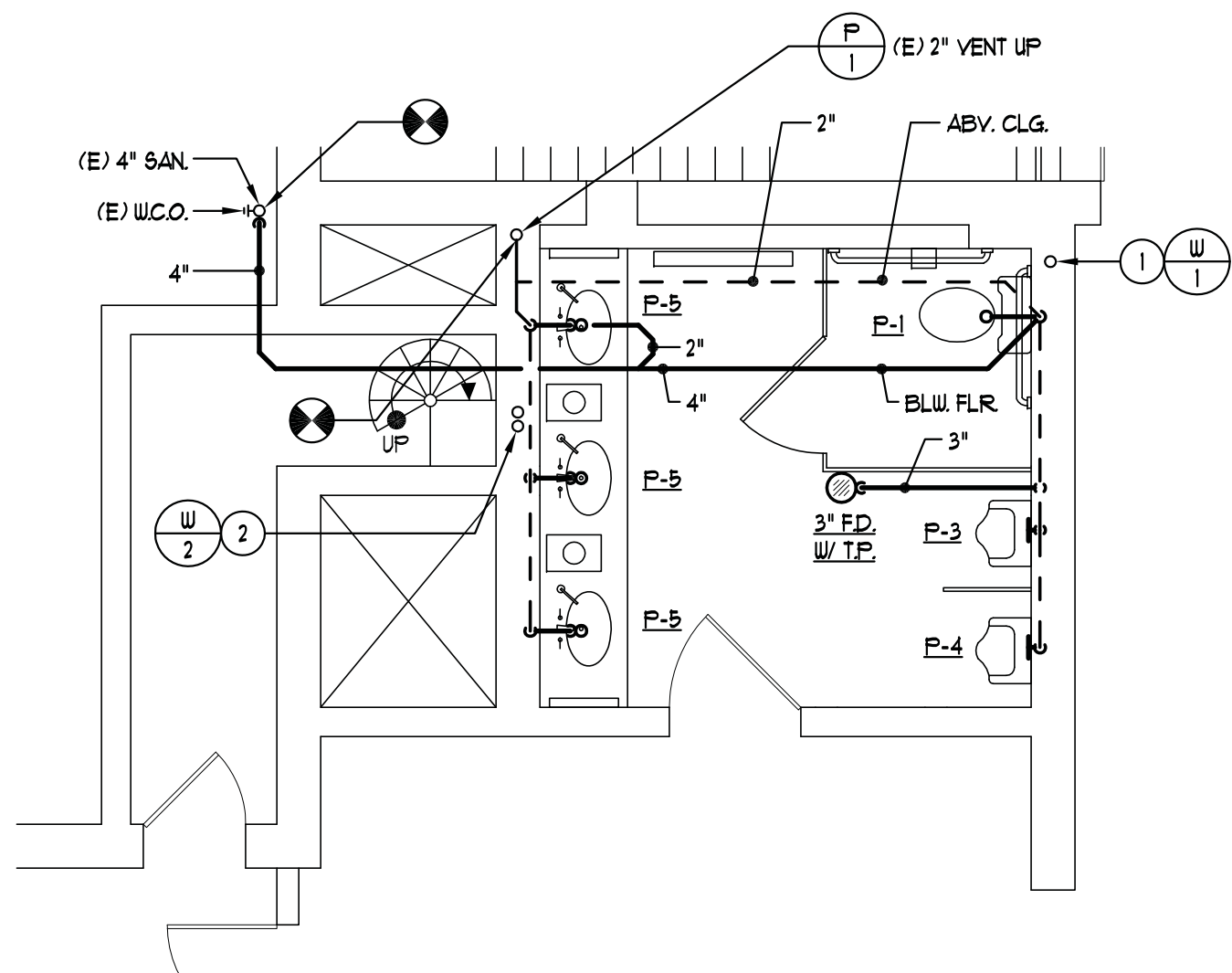
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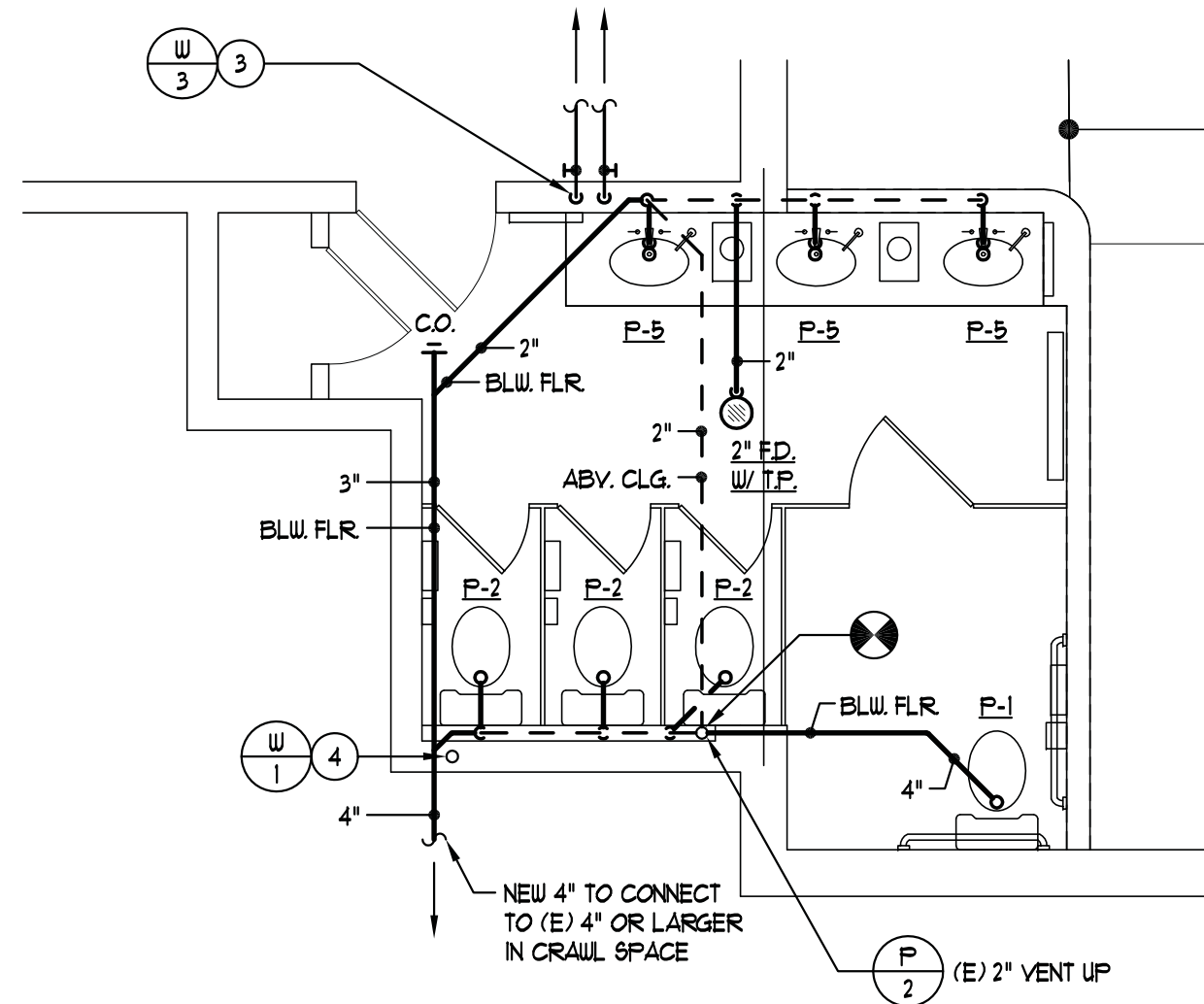
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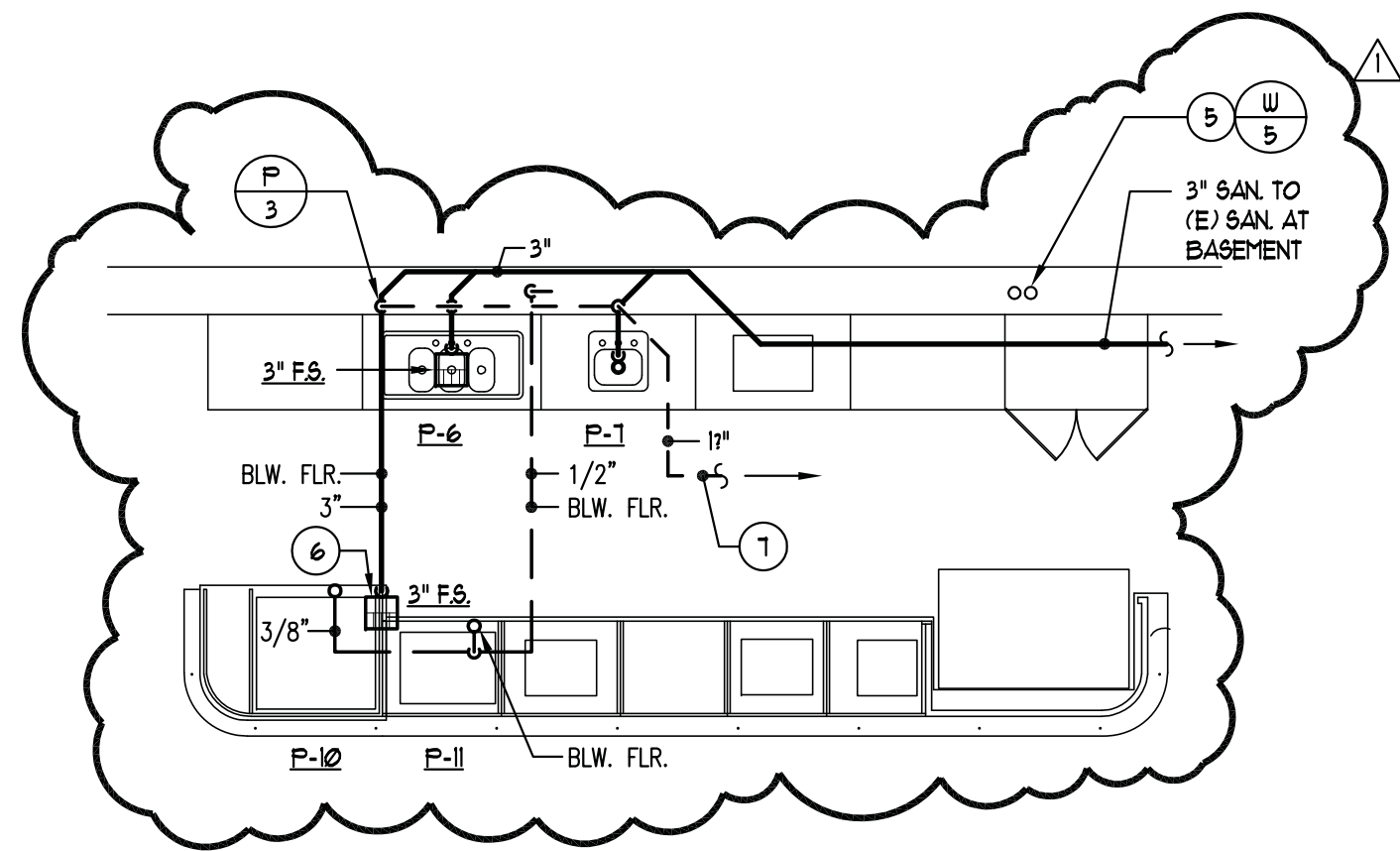
1 PARTIAL FIRST FLOOR PLAN - MENS ROOM - PLUMBING
SCALE: 1/4"=1'-0"



2 PARTIAL FIRST FLOOR PLAN - WOMENS ROOM - PLUMBING
SCALE: 1/4"=1'-0"

SHEET NOTES

- 1 EXTEND EXISTING 1 1/2" CAPPED COLD WATER TO NEW WATER CLOSET AND URINALS. (SEE RISER DIAGRAMS FOR ADDITIONAL INFORMATION).
- 2 EXTEND EXISTING CAPPED 3/4" HOT AND COLD WATER TO NEW LAVATORIES. (SEE RISER DIAGRAMS FOR ADDITIONAL INFORMATION).
- 3 EXTEND AND INSTALL NEW 3/4" HOT AND COLD WATER PIPING TO NEW LAVATORIES. (SEE RISER DIAGRAMS FOR ADDITIONAL INFORMATION).
- 4 EXISTING 1 1/2" COLD WATER TO EXTEND AND SUPPLY NEW WATER CLOSETS IN WALL. (REFER TO RISER DIAGRAMS FOR ADDITIONAL INFORMATION).
- 5 EXTEND EXISTING 3/4" HOT AND COLD WATER SUPPLY PIPING TO NEW SINKS IN WALL. (REFER TO RISER DIAGRAMS FOR ADDITIONAL INFORMATION).
- 6 INDIRECT DRAINAGE TO DRAIN TO NEW 3" FLOOR SINK FROM EQUIPMENT PIECES P-10 AND P-11.
- 7 CONTRACTOR TO CONNECT NEW 1 1/2" VENT PIPING TO EXISTING VENT PIPING ABOVE CEILING.



3 PARTIAL FIRST FLOOR PLAN - CONCESSION AREA - PLUMBING
SCALE: 1/4"=1'-0"

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER LAWS OF THE STATE OF MARYLAND, LICENSE NO. 22541. EXPIRATION DATE: 03/01/2022.

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P4.1

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CONSULTING ENGINEERS
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P3.3

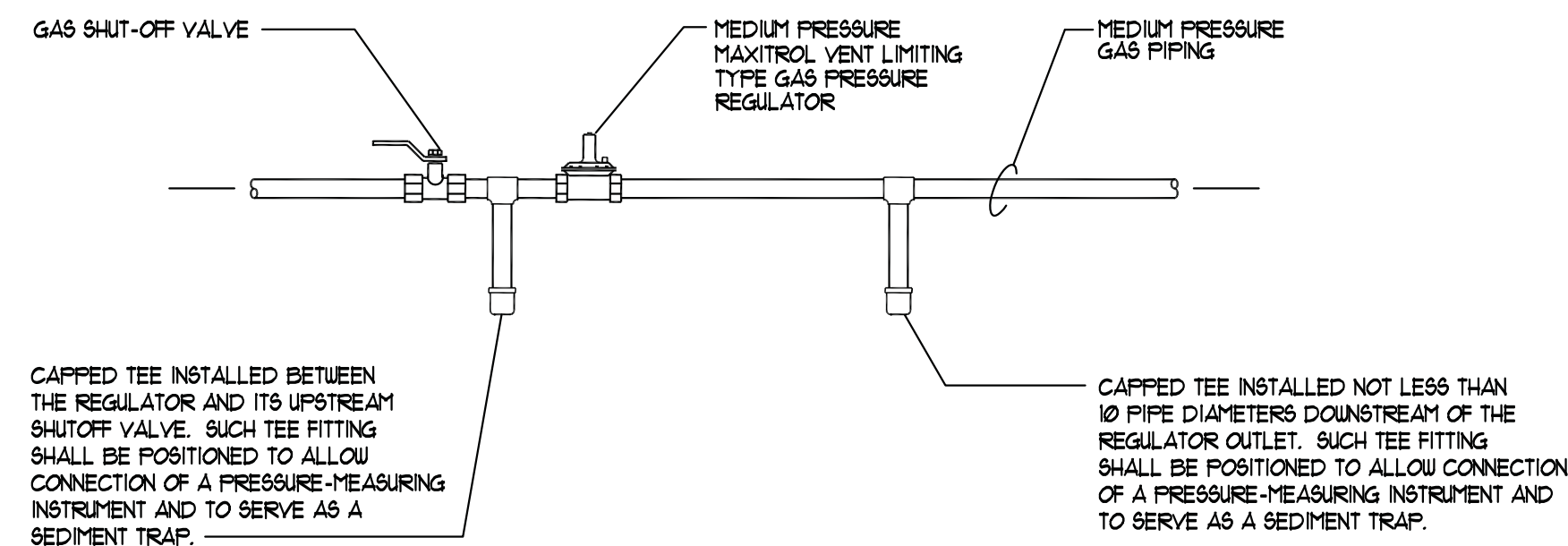
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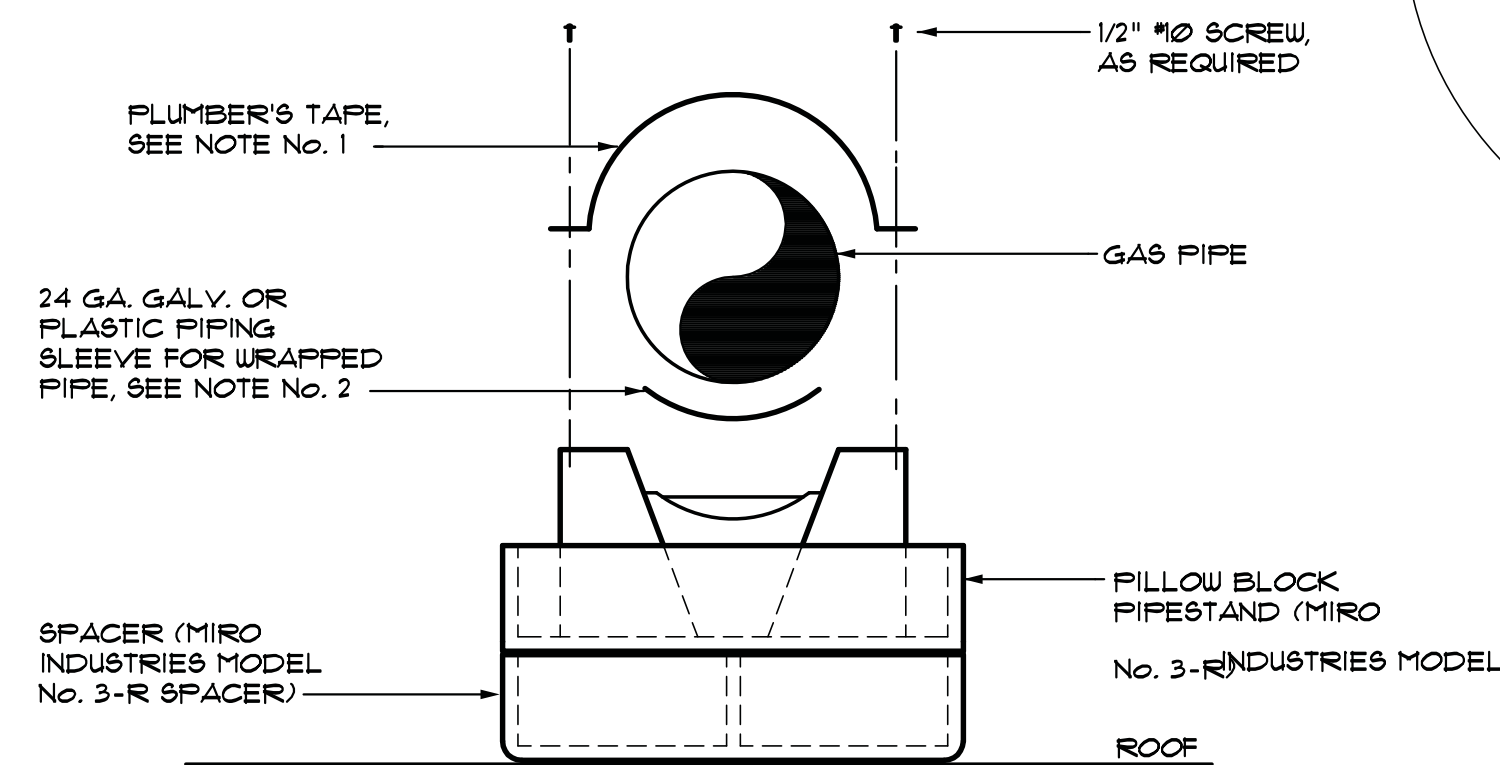
ROOF PLAN - PLUMBING

SCALE: 1/8"=1'-0"



**MEDIUM PRESSURE GAS
REGULATOR INSTALLATION DETAIL**

2
P3.3 SCALE : NONE

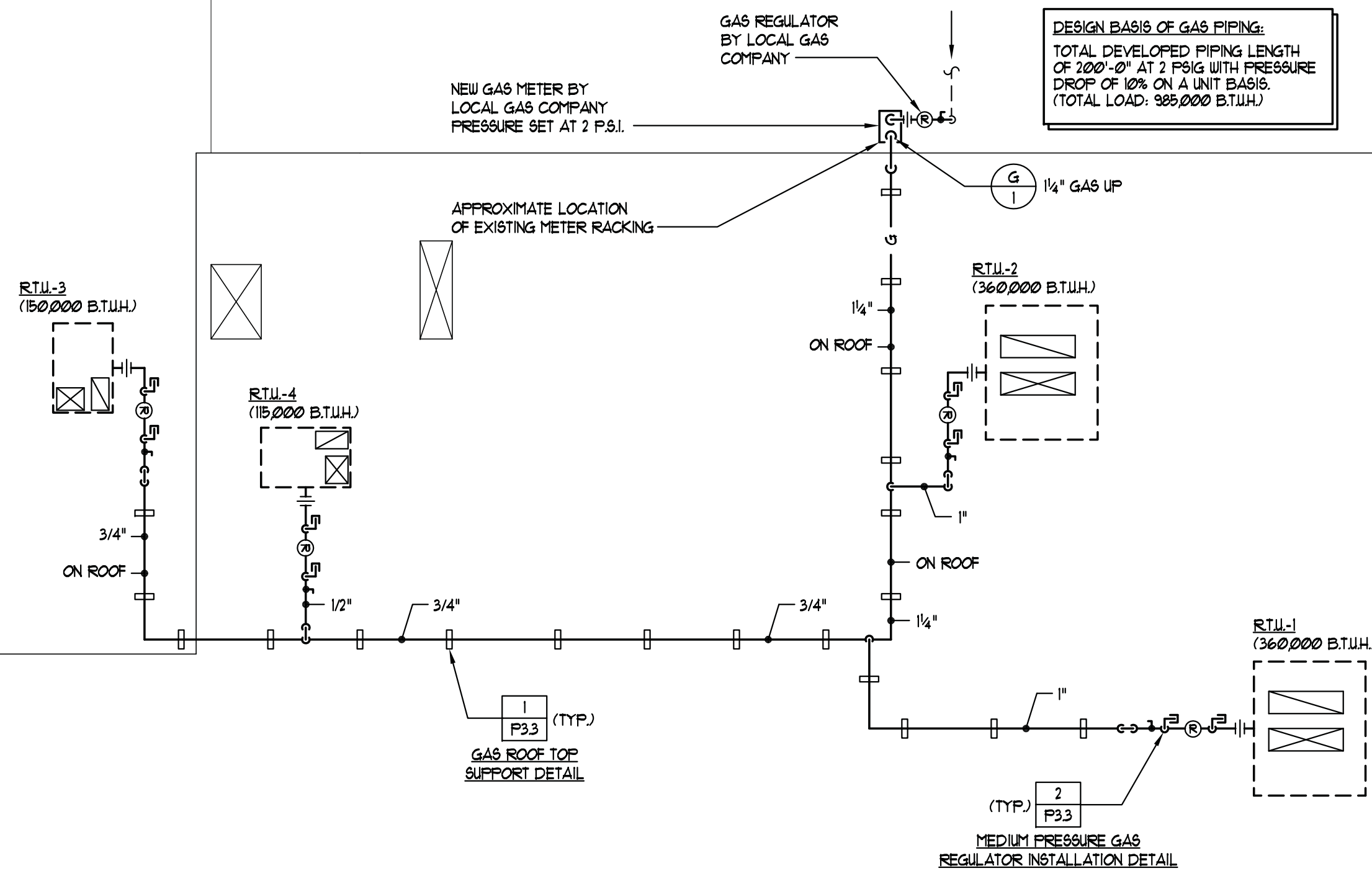


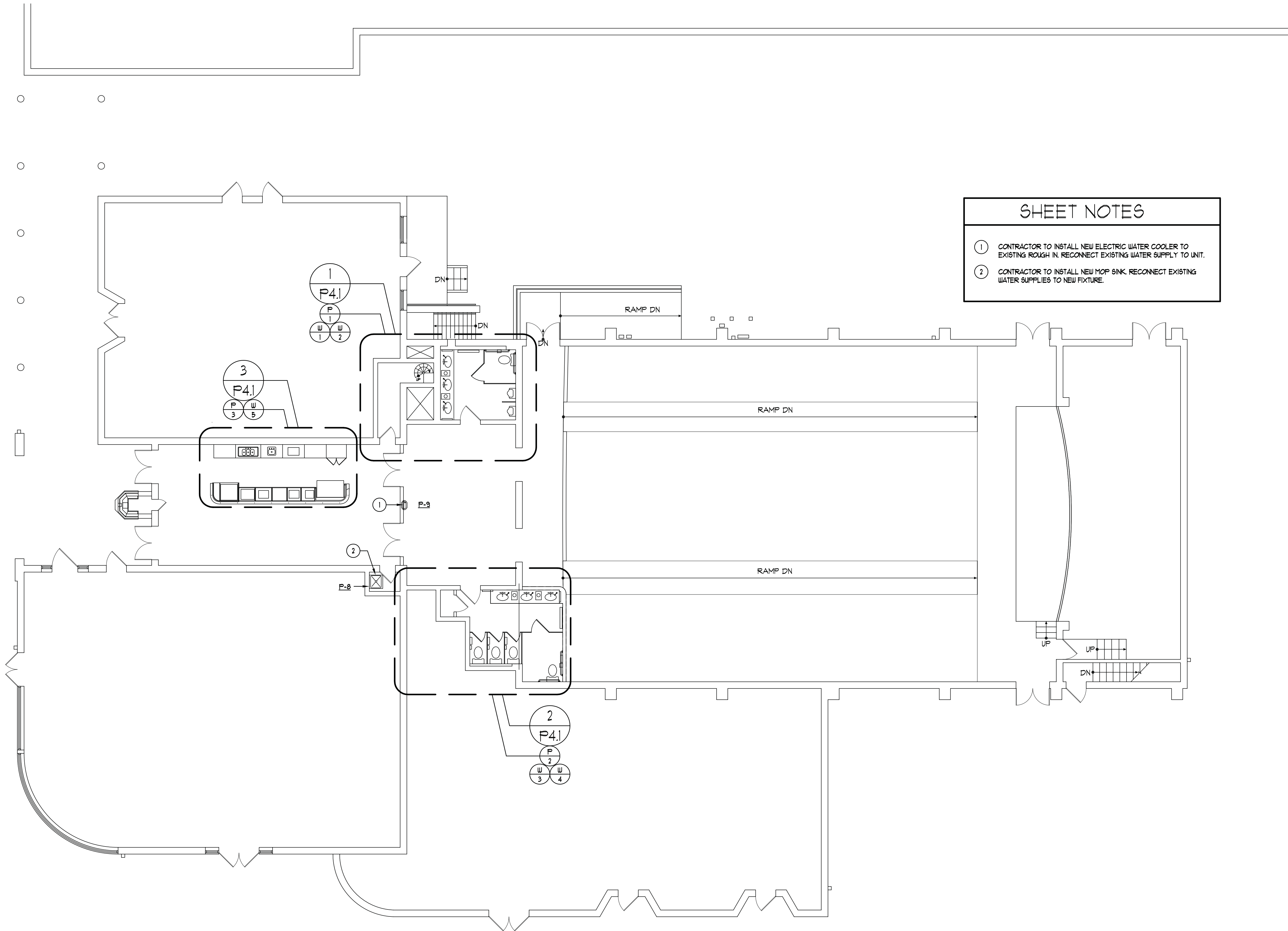
- NOTES:**
1. UTILIZE #10 SCREWS TO SECURE PLUMBERS TAPE TO THE SUPPORT ASSEMBLY. UTILIZE A LENGTH OF TAPE WHICH ENSURES FREE AXIAL TRAVEL OF THE PIPE.
 2. A SLEEVE SHALL BE UTILIZED IN CONJUNCTION WITH WRAPPED PIPE TO PREVENT FOULING OF THE PIPE SUPPORT ROLLER.
 3. THE DESIGN LOAD LIMIT FOR EACH SUPPORT ASSEMBLY IS 100 LBS.

1 GAS ROOFTOP PIPE SUPPORT DETAIL

P3.3 SCALE : NONE

DESIGN BASIS OF GAS PIPING:
TOTAL DEVELOPED PIPING LENGTH
OF 200'-0" AT 2 PSIG WITH PRESSURE
DROP OF 10% ON A UNIT BASIS.
(TOTAL LOAD: 365,000 B.T.U.H.)





SHEET NOTES

1

CONTRACTOR TO INSTALL NEW ELECTRIC WATER COOLER TO EXISTING ROUGH IN. RECONNECT EXISTING WATER SUPPLY TO UNIT.

2

CONTRACTOR TO INSTALL NEW MOP SINK. RECONNECT EXISTING WATER SUPPLIES TO NEW FIXTURE.

FIRST FLOOR PLAN - PLUMBING
SCALE: 1/8"=1'-0"

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H

H

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GT

M

ARCHITECTS

7735 OLD GEORGETOWN ROAD

SUITE 700

BETHESDA, MD 20814

(240)333-2000

(240)333-2001 FAX

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GREENBELT, MD 20770

FIRST FLOOR PLAN

PLUMBING

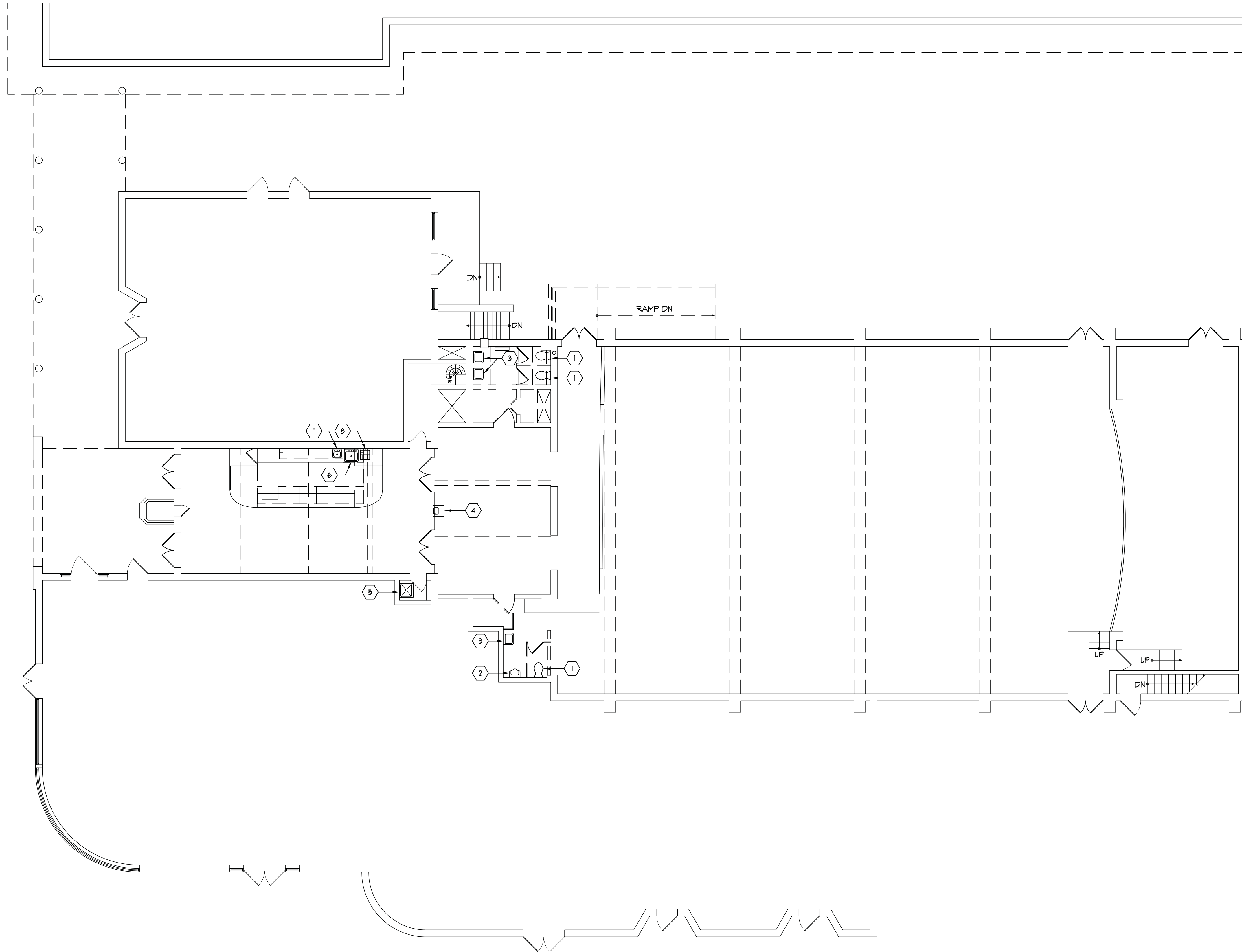
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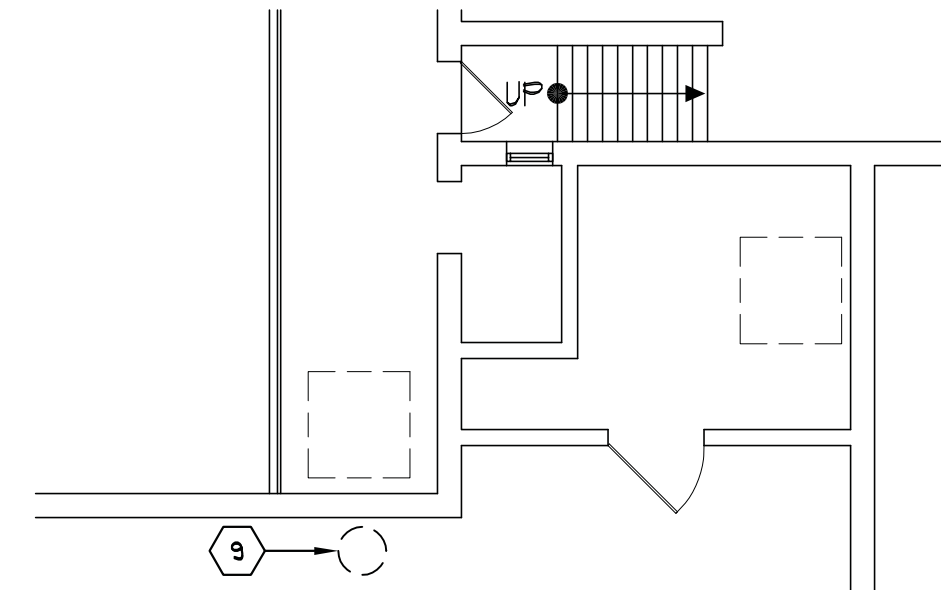
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DRAWING NO.
P3.2

FIRST FLOOR DEMOLITION PLAN - PLUMBING
SCALE: 1/8"=1'-0"

DEMOLITION NOTES

- 1 EXISTING WATER CLOSET TO BE REMOVED. CONTRACTOR TO REMOVE EXISTING FIXTURE AND RETURN TO BUILDING OWNER OR AGENT. CONTRACTOR TO REMOVE EXISTING FIXTURE, ROUGH IN, SANITARY, VENT AND WATER PIPING BACK TO MAINS AND CAP.
- 2 EXISTING URINAL TO BE REMOVED. CONTRACTOR TO REMOVE EXISTING FIXTURE AND RETURN TO BUILDING OWNER OR AGENT. CONTRACTOR TO REMOVE EXISTING FIXTURE, ROUGH IN, SANITARY, VENT AND WATER PIPING BACK TO MAINS AND CAP.
- 3 EXISTING LAVATORY TO BE REMOVED. CONTRACTOR TO REMOVE EXISTING FIXTURE AND RETURN TO BUILDING OWNER OR AGENT. CONTRACTOR TO REMOVE EXISTING FIXTURE, ROUGH IN, SANITARY, VENT AND WATER PIPING BACK TO MAINS AND CAP.
- 4 EXISTING ELECTRIC WATER COOLER TO BE REMOVED. CONTRACTOR TO REMOVE EXISTING FIXTURE AND RETURN TO BUILDING OWNER OR AGENT. CONTRACTOR TO INSPECT EXISTING ROUGH IN AND WATER SUPPLIES FOR DEFECTS AND PROPER WORKING CONDITION. REPLACE IF NECESSARY. PREPARE AREA FOR NEW FIXTURE.
- 5 EXISTING SERVICE SINK TO BE REMOVED. CONTRACTOR TO REMOVE EXISTING FIXTURE AND RETURN TO BUILDING OWNER OR AGENT. CONTRACTOR TO INSPECT EXISTING ROUGH IN AND WATER SUPPLIES FOR DEFECTS AND PROPER WORKING CONDITION. REPLACE IF NECESSARY. PREPARE AREA FOR NEW FIXTURE.
- 6 EXISTING PANTRY SINK TO BE REMOVED. CONTRACTOR TO REMOVE EXISTING FIXTURE AND RETURN TO BUILDING OWNER OR AGENT. CONTRACTOR TO REMOVE EXISTING FIXTURE, ROUGH IN, SANITARY, VENT AND WATER PIPING BACK TO MAINS AND CAP.
- 7 EXISTING BAR SINK TO BE REMOVED. CONTRACTOR TO REMOVE EXISTING FIXTURE AND RETURN TO BUILDING OWNER OR AGENT. CONTRACTOR TO REMOVE EXISTING FIXTURE, ROUGH IN, SANITARY, VENT AND WATER PIPING BACK TO MAINS AND CAP.
- 8 EXISTING FLOOR SINK TO BE REMOVED. CONTRACTOR TO REMOVE EXISTING DRAIN AND REPLACE WITH NEW.
- 9 EXISTING WATER HEATER TO BE REMOVED AND REPLACED WITH NEW. RETURN EXISTING WATER HEATER TO BUILDING OWNER OR AGENT. CONTRACTOR TO REPLACE EXISTING WATER HEATER WITH NEW AND REMOVE ALL EXISTING ABANDONED WATER LINES BACK TO EXISTING MAINS AND CAP. (REFER TO DETAIL 1 ON DRAWING PL1 FOR ADDITIONAL INFORMATION ON NEW WATER HEATER).

PARTIAL BASEMENT DEMOLITION PLAN
MECHANICAL AND PLUMBING
SCALE: 1/8"=1'-0"

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7735 OLD GEORGETOWN ROAD
SUITE 700
BETHESDA, MD 20814
(240)333-2000
(240)333-2001 FAX

25 CRESCENT ROAD
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DEMOLITION PLAN
PLUMBING

CITY OF GREENBELT
GREENBELT THEATER
RENOVATION

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P3.1

PLUMBING DRAWING LIST

DRAWING NUMBER	TITLE	NUMBER OF DRAWING
P1.1	COVER SHEET - PLUMBING	1
P3.1	DEMOLITION PLAN - PLUMBING	2
P3.2	FIRST FLOOR PLAN - PLUMBING	3
P3.3	ROOF PLAN - PLUMBING	4
P4.1	PARTIAL PLANS - PLUMBING	5
P8.1	RISE DIAGRAMS - PLUMBING	6
-	-	-

FIXTURE CONNECTION SCHEDULE

ITEM	DESCRIPTION	WASTE	VENT	C.W.	H.W.	REMARKS
P-1	WATER CLOSET	4"	2"	1"	-	FLOOR MOUNTED, FLUSH VALVE HANDICAPPED
P-2	WATER CLOSET	4"	2"	1"	-	FLOOR MOUNTED, FLUSH VALVE
P-3	URINAL	2"	1"	3/4"	-	WALL HUNG, HANDICAPPED WASH OUT FIXTURE, MOUNTED AT A.D.A. APPROVED HEIGHT
P-4	URINAL	2"	1"	3/4"	-	WALL HUNG, WASH OUT FIXTURE MOUNTED AT REGULAR HEIGHT
P-5	LAVATORY	1 1/2"	1"	1/2"	1/2"	COUNTER TOP, SELF RIMMING, HANDICAPPED
P-6	THREE COMPARTMENT SINK	(3) 1 1/2"	1"	1/2"	1/2"	MOLDED ABS PLASTIC, SELF RIMMING WITH GOOSENECK FAUCET, HANDICAPPED
P-7	BAR SINK	1 1/2"	1"	1/2"	1/2"	STAINLESS STEEL, SELF RIMMING
P-8	MOP SINK	3"	1"	1/2"	1/2"	FLOOR MOUNTED, 24" x 24"
P-9	ELECTRIC WATER COOLER	1"	1"	1/2"	1/2"	WALL HUNG, BARRIER FREE MOUNTED AT LOW A.D.A. HEIGHT
P-10	ICE MACHINE	1/2" AND 3/4"	-	3/8"	-	ICE MACHINE DRAINS TO FLOOR SINK INDIRECTLY PROVIDE BACKFLOW PROTECTION TO WATER SUPPLY
P-11	SODA MACHINE	3/4"	-	1/4"	-	SODA MACHINE DRAIN TO FLOOR SINK INDIRECTLY PROVIDE BACKFLOW PROTECTION TO WATER SUPPLY

PLUMBING FIXTURE SPECIFICATIONS

- P-1: WATER CLOSET (HANDICAPPED): AMERICAN STANDARD "MADERA" MODEL No. 2305100 IN WHITE, ELONGATED BOWL, 16 GALLONS PER FLUSH. FLUSH VALVE: SLOAN MODEL No. III. SEAT: BEMIS MODEL No. 1955C, OPEN FRONT, ELONGATED SEAT IN WHITE.
- P-2: WATER CLOSET (HANDICAPPED): AMERICAN STANDARD "MADERA" MODEL No. 2234015 IN WHITE, ELONGATED BOWL, 16 GALLONS PER FLUSH. FLUSH VALVE: SLOAN MODEL No. III. SEAT: BEMIS MODEL No. 1955C, OPEN FRONT, ELONGATED SEAT IN WHITE.
- P-3: URINAL: (HANDICAPPED) AMERICAN STANDARD "LYNNBROOK" MODEL No. 2305100, COLOR IN WHITE, MOUNTED AT LOW A.D.A. APPROVED HEIGHT. FLUSH VALVE: SLOAN ROYAL MODEL No. 186-1.
- P-4: URINAL: (HANDICAPPED) AMERICAN STANDARD "LYNNBROOK" MODEL No. 2305100, COLOR IN WHITE, MOUNTED AT REGULAR HEIGHT. FLUSH VALVE: SLOAN ROYAL MODEL No. 186-1.
- P-5: LAVATORY (HANDICAPPED): AMERICAN STANDARD "AQUALYNN" MODEL No. 0415020 (20" x 17") SELF RIMMING, 8" CENTERS, IN WHITE. FAUCET: (HANDICAPPED) SYMMONS "SYMMETRIX" MODEL No. 5-244-2-G. TWO HANDLE WIDESPREAD WITH GRID DRAIN. TRAP INSULATION: TRUEBRO "LAY GUARD" INSULATION KIT No. 102W. POINT OF USE MIXING VALVES: SPARCO MODEL No. AM-100. BELOW LAVATORY (SET AT 105")
- P-6: THREE COMPARTMENT SINK: MOLI INTERNATIONAL MODEL No. BHS-1136 WITH 3 HOLES AND 4" CENTERS ONLY. FAUCET: MOLI INTERNATIONAL GOOSENECK DECK MOUNTED FAUCET. (INCLUDED)
- P-7: BAR SINK: ELKAY MODEL No. CH9116C WALL HUNG, STAINLESS STEEL. FAUCET: ELKAY MODEL No. LK499A CHROME PLATED 8-3/8" HIGH GOOSENECK SPOUT. (FURNISHED WITH SINK). AERATOR: AEB3 (FURNISHED). GRID DRAIN: LK3 C.P. (FURNISHED). P-TRAP: LK900 CHROME CAST BRASS "P" TRAP WITH CLEANOUT. (FURNISHED).
- P-8: MOP SERVICE SINK: ACORN MODEL No. 303006-BDS. FAUCET: ACORN MODEL No. KFC PROVIDED WITH VACUUM BREAKER. ACCESSORIES: WITH OPTIONAL STRAINER (-BDS), 36" BUMPER GUARD MODEL No. KBGV, STAINLESS STEEL (2) - WALL GUARD KUG, K14 WALL HANGAR WITH 3 GRIPS AND KH36 HOSE BRACKET.
- P-9: ELECTRIC WATER COOLER: (HANDICAPPED) ELKAY MODEL No. EZ58 WITH FLEXI-GUARD BUBBLER WITH A LIGHT GRAY GRANITE FINISH.

FLOOR DRAIN: ZURN MODEL No. ZN-415-NL-P WITH TYPE "B" STRAINER

TRAP PRIMER: MIFAB M-500 SERIES.

FLOOR SINK: JOSAM MODEL No. 49343A-NB-X. 8-3/4" DEEP WITH 10" x 10" NICKEL BRONZED SQUARE GRATE AREA WITH ACID RESISTANT INTERIOR, BOTTOM OUTLET, ALUMINUM INTERNAL DOME STRAINER WITH FLANGE INCLUDED. CONTRACTOR TO ORDER GRATE PER FIELD CONDITIONS. (OR APPROVED EQUAL.)

GENERAL NOTES

- DRAWINGS ARE DIAGRAMMATIC ONLY AND REPRESENT THE GENERAL SCOPE OF WORK. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO HIS BIDDING, INVESTIGATE ALL CONDITIONS THAT AFFECT HIS WORK, VERIFY LOCATIONS OF SANITARY SEWERS, STORM WATER SEWERS, WATER MAINS, AND NATURAL GAS MAINS AND MAKE CERTAIN THAT ALL NEW CONNECTIONS CAN BE MADE.
- ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH LOCAL PLUMBING CODES, BUILDING CODES, STATE REGULATIONS AND ORDINANCES AND LOCAL CODE SUPPLEMENTS.
- EVERY FIXTURE, DEVICE, APPARATUS, OR PIECE OF EQUIPMENT WHICH CONVEYS, USES OR IS ACTIVATED BY WATER SHALL BE OF SUCH DESIGN AND BE INSTALLED IN SUCH A MANNER THAT THE DOMESTIC WATER SYSTEM IS PROTECTED AGAINST CONTAMINATION.
- ALL PLUMBING PIPING SHALL BE CLOSELY COORDINATED WITH OTHER TRADES INCLUDING MECHANICAL EQUIPMENT, LIGHTING FIXTURES, CONDUITS, ROOF STRUCTURE, ETC. PRIOR TO ANY PIPING INSTALLATION.
- KEEP ALL PIPING AS HIGH AS POSSIBLE, ABOVE CEILINGS AND IN JOIST SPACES AND AT THE LEVEL OF ROOF STRUCTURE WHERE THERE ARE NO CEILINGS.
- CLEANOUTS SHALL BE INSTALLED AS INDICATED ON THE DRAWINGS AND AS REQUIRED BY THE PLUMBING CODE.
- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF ALL WALLS, CEILINGS, DOORS, FLOORS AND PLUMBING FIXTURES, ETC.
- THE CONTRACTOR SHALL ARRANGE AND PAY FOR ALL PERMITS, INSPECTIONS AND ANY REINSPECTIONS THAT ARE REQUIRED.
- ALL WATER PIPING ABOVE FLOOR SHALL BE TYPE "L" COPPER. UNDERGROUND WATER PIPING SHALL BE TYPE "K" COPPER. INSULATE ALL WATER PIPING WITH 1" THICK FIBERGLASS INSULATION.
- ALL SOIL, WASTE, VENT OR STORM PIPING SHALL BE SCHEDULE 40 P.V.C. (EXCEPT IN AIR PLENUM SPACE, USE DUV COPPER OR CAST IRON).
- ALL GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL PIPE.

FIRE PROTECTION NOTES

- CONTRACTOR SHALL VISIT THE SITE PRIOR TO HIS BIDDING AND SHALL SURVEY ALL CONDITIONS THAT AFFECT HIS WORK.
- ALL SPRINKLER SYSTEMS REQUIRED FOR THIS PROJECT SHALL BE MODIFIED TO STRICT ACCORDANCE WITH ALL REQUIREMENTS OF NFPA 13 AND ALL STATE AND LOCAL FIRE MARSHAL REGULATIONS, CODES AND ORDINANCES.
- IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN APPROVAL OF ALL SPRINKLER SHOP DRAWINGS AND EQUIPMENT FROM THE FIRE MARSHAL AND THE REVIEW OF THE ENGINEER.
- IT SHALL BE THE SOLE RESPONSIBILITY OF THE SPRINKLER CONTRACTOR TO PROVIDE AND INSTALL A SPRINKLER SYSTEM FOR THIS PROJECT. SPRINKLER CONTRACTOR SHALL INSTALL A NEW OR MODIFY THE EXISTING SPRINKLER SYSTEM PER ALL NFPA REQUIREMENTS FOR THIS PROJECT.

SYMBOLS AND ABBREVIATIONS

NEW WORK		EXISTING WORK	
—	SANITARY PIPING (SAN)	— (E)	SANITARY PIPING (SAN)
- - -	VENT PIPING	— (E)	COLD WATER PIPING (C.W.)
—	COLD WATER PIPING (C.W.)	— G —	(E) GAS PIPING
—	HOT WATER PIPING (H.W.)	○	(E) PIPE TURNING UP
— G —	GAS PIPING	—	(E) PIPE TURNING DOWN
— S —	GAS VALVE	□	(E) CLEANOUT (C.O.)
— —	UNION	ABBREVIATIONS	
— B —	GAS PRESSURE REGULATOR	ABV.	ABOVE
— T —	GATE VALVE	BLW.	BELOW
□	CLEANOUT AT FINISHED FLOOR	CLG.	CEILING
○	PIPE TURNING UP	C.O.	CLEANOUT
—	PIPE TURNING DOWN	(E)	EXISTING
— N —	BACKFLOW PREVENTER (B.F.P.)	FLR.	FLOOR
⊗	POINT OF CONNECTION (NEW TO EXISTING)	T.P.	TRAP PRIMER
⊙	RISE DESIGNATIONS	TYP.	TYPICAL
P	SANITARY	V.T.R.	VENT THROUGH ROOF
W	WATER	W/	WITH

H HURST & ASSOCIATES
CONSULTING ENGINEERS
308 HILLWOOD AVE.
FALLS CHURCH, VA. 22046
(703) 534-7872

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PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM DULY LICENSED PROFESSIONAL ENGINEER UNDER LAWS OF THE STATE OF MARYLAND, LICENSE NO. 72541. EXPIRATION DATE: 12/31/2026.

REVISIONS:

DESIGN DEVELOP.	04.18.05
ISSUE FOR PERMIT	01.22.07
PERMIT COMMENTS	11.03.08
BID SET	04.08.09

SEAL:

DRAWN BY:	S.P.M.
CHECKED BY:	C.G.H. III
SCALE:	NONE
DATE:	
PROJECT NO.	03.0299

DRAWING NO.

P1.1

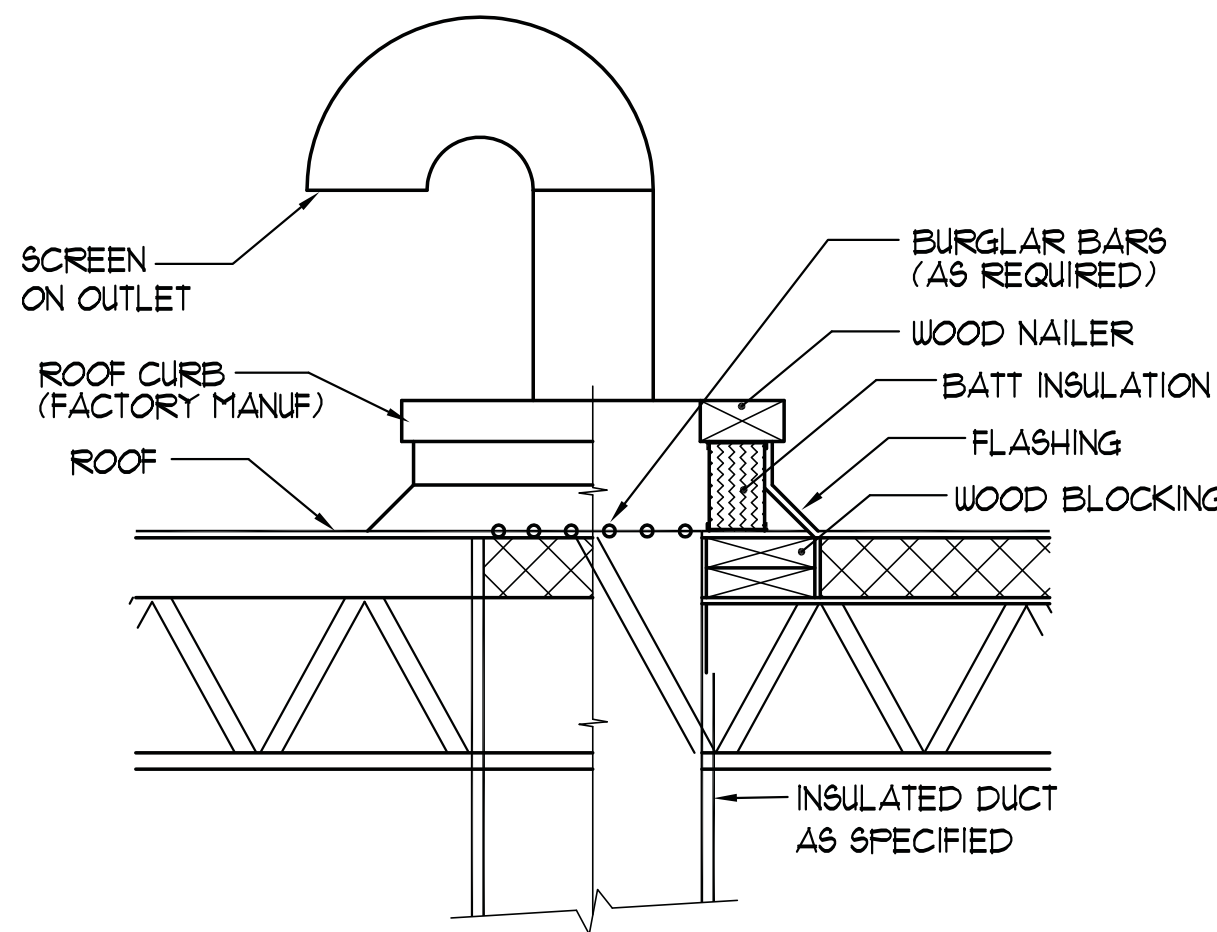
GTMARCHITECTS

7735 OLD GEORGETOWN ROAD
SUITE 700
BETHESDA, MD 20814
(240)333-2000
(240)333-2001 FAX

25 CRESCENT ROAD
GREENBELT, MD 20710COVER SHEET
PLUMBING**CITY OF GREENBELT
GREENBELT THEATER
RENOVATION**

TO SIDEWALL DISCHARGE CAP W/ SCREEN
GASKETED ACCESS PANEL
FLEXIBLE CONNECTION

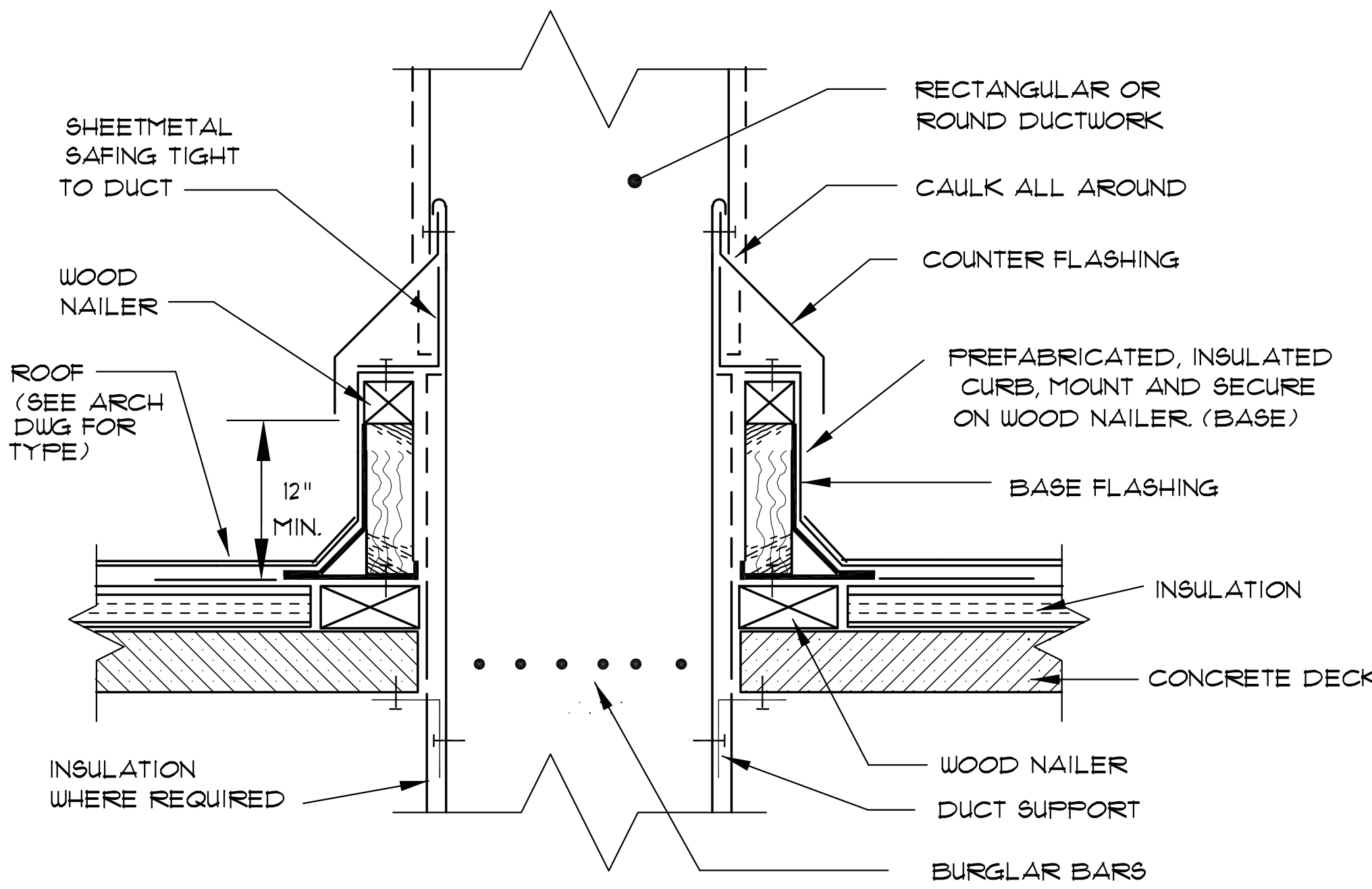
IN-LINE CEILING EXHAUST FAN DETAIL



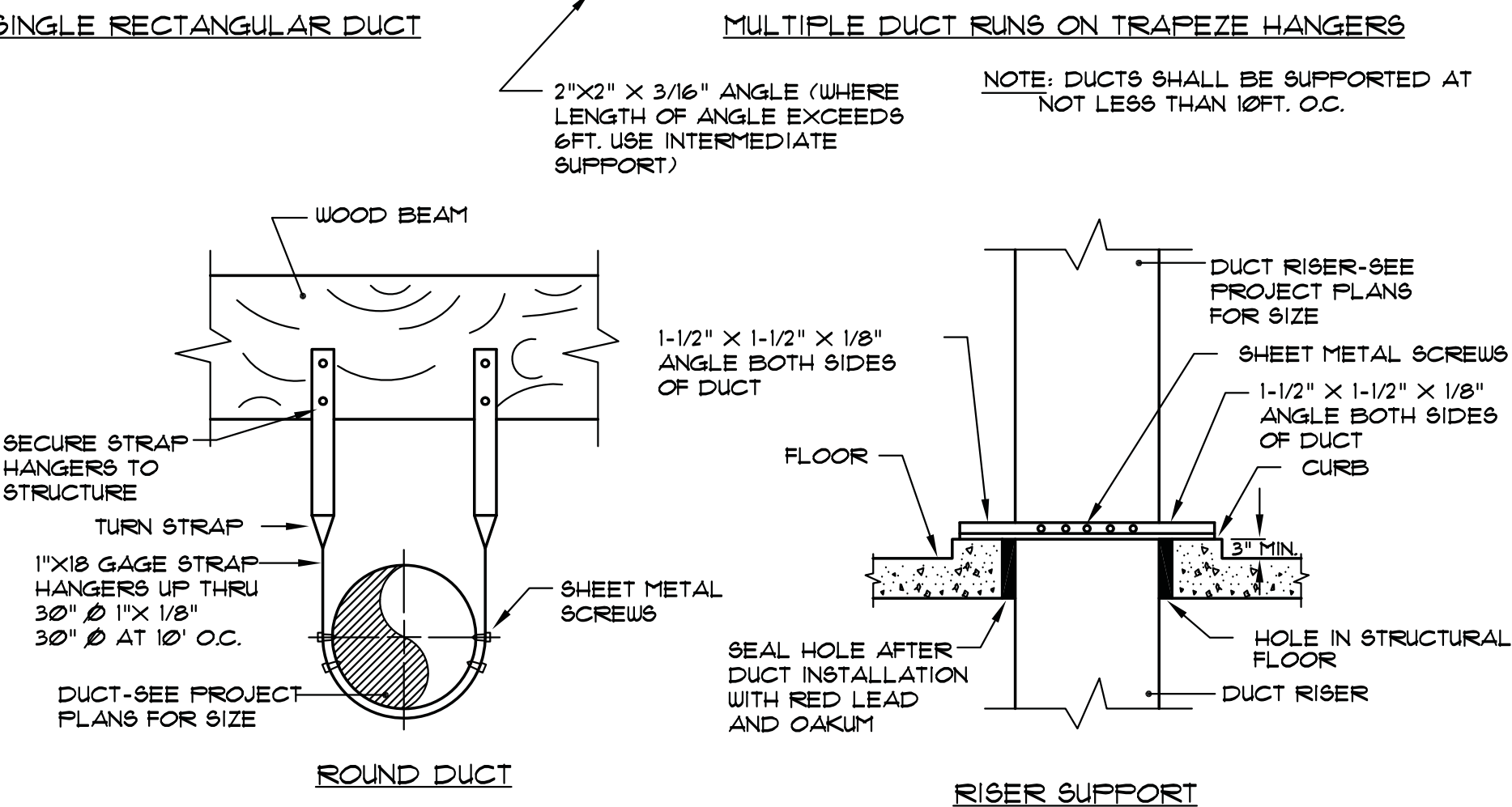
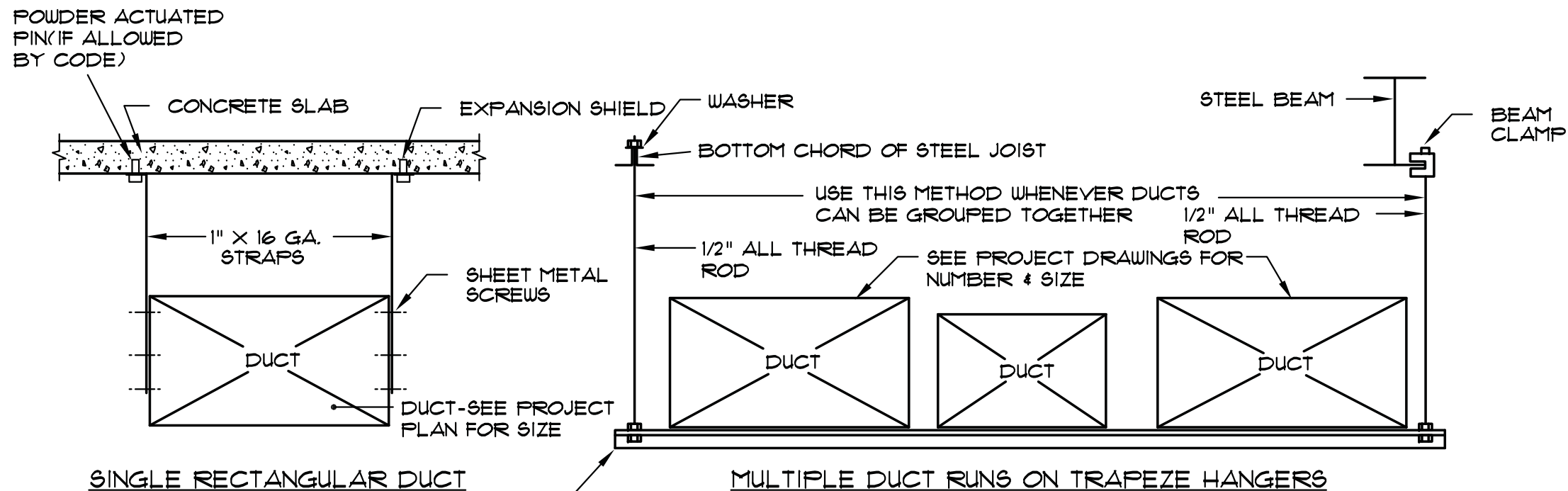
EXHAUST OR O.A. GOOSENECK DETAIL
NO SCALE

BOOT CONNECTION
DUCT BRANCH CONNECTIONS

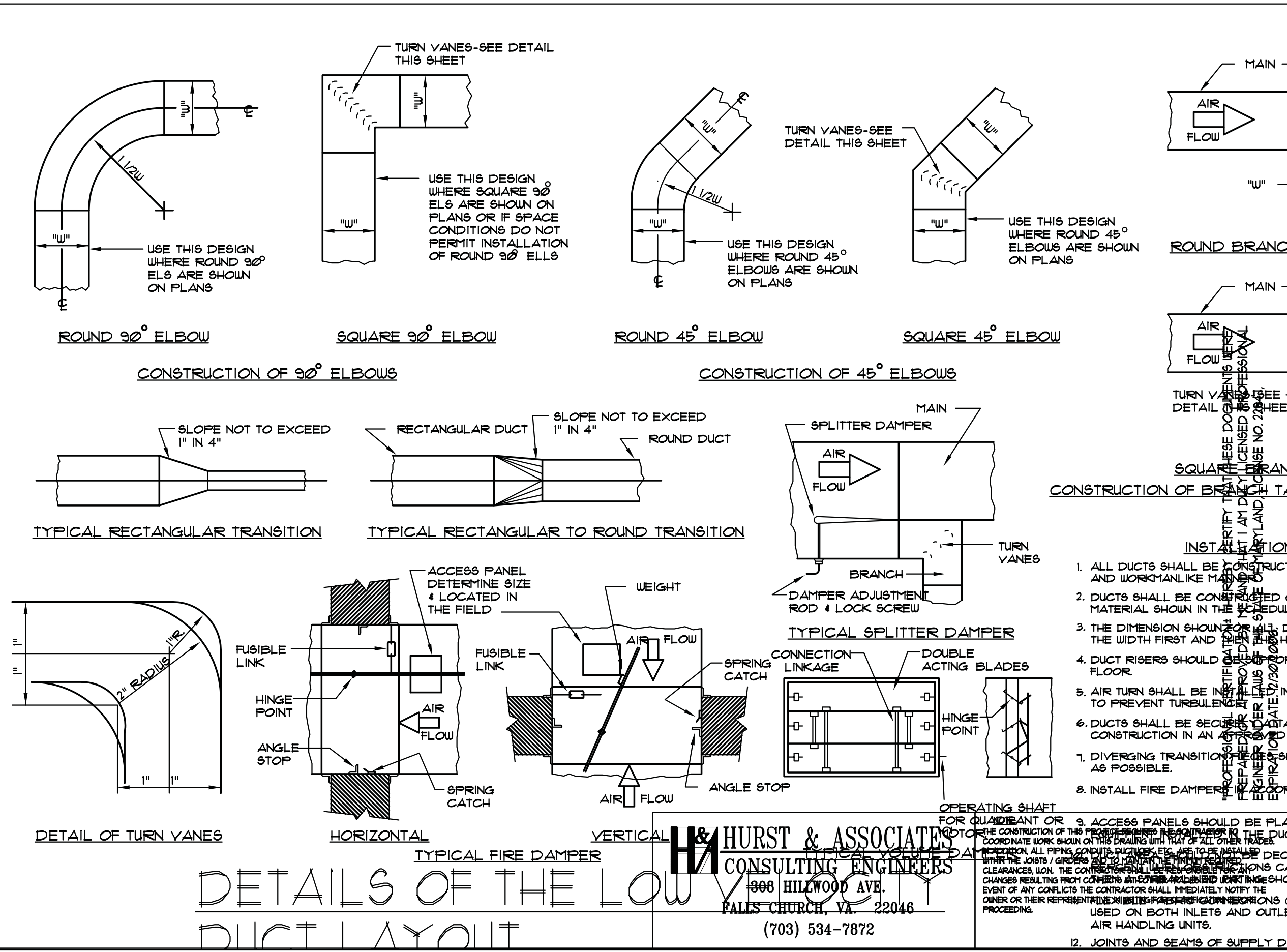
BRANCH DUCT TAKE-OFF DETAIL
NOT TO SCALE



DUCT PENETRATION THRU ROOF
NOT TO SCALE



HANGER AND SUPPORT DETAILS FOR



GT MARCHITECTS
7735 OLD GEORGETOWN ROAD
SUITE 700
BETHESDA, MD 20814
(240)333-2000
(240)333-2001 FAX

25 CRESCENT ROAD
GREENBELT, MD 20770
DETAILS
MECHANICAL

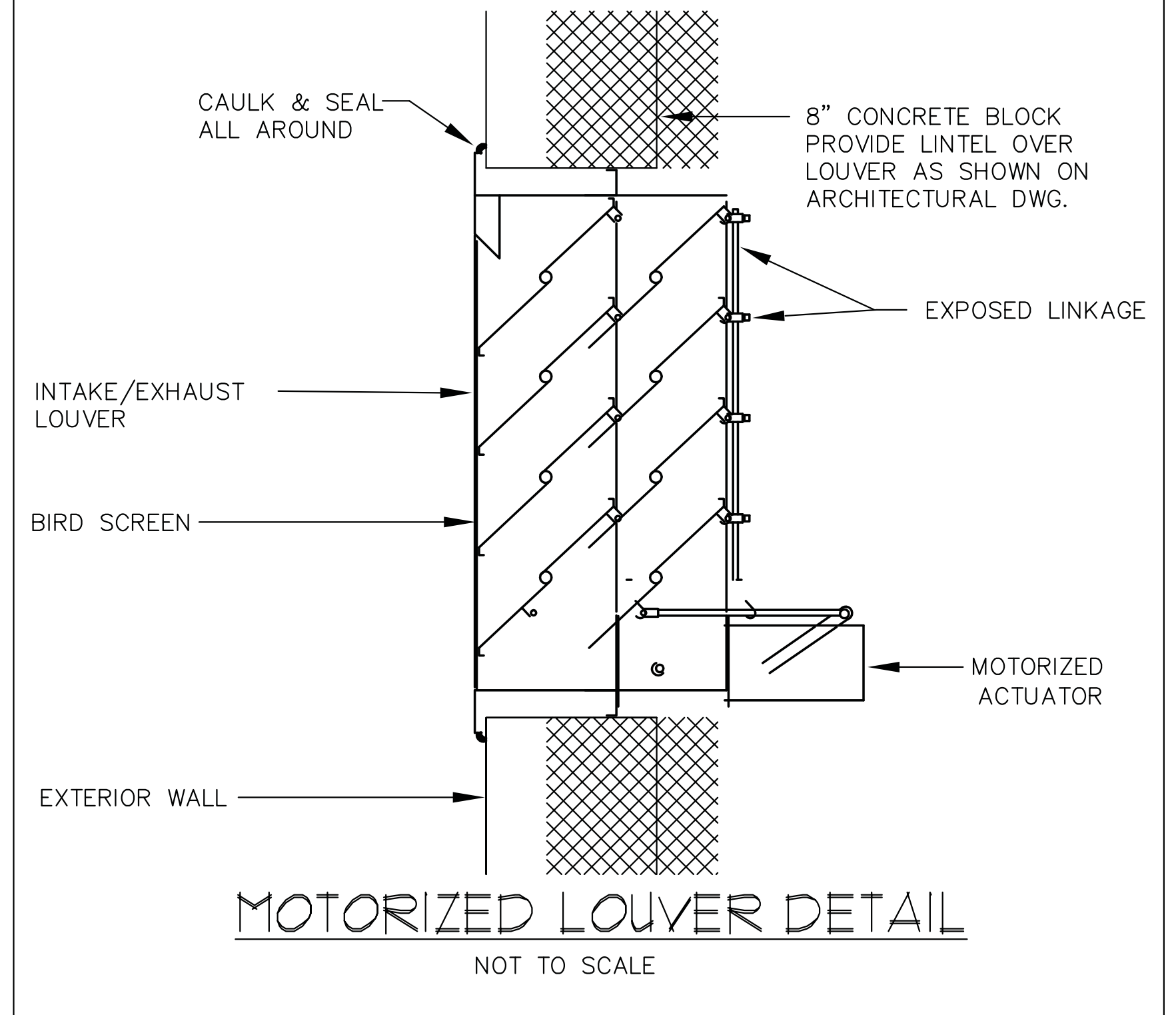
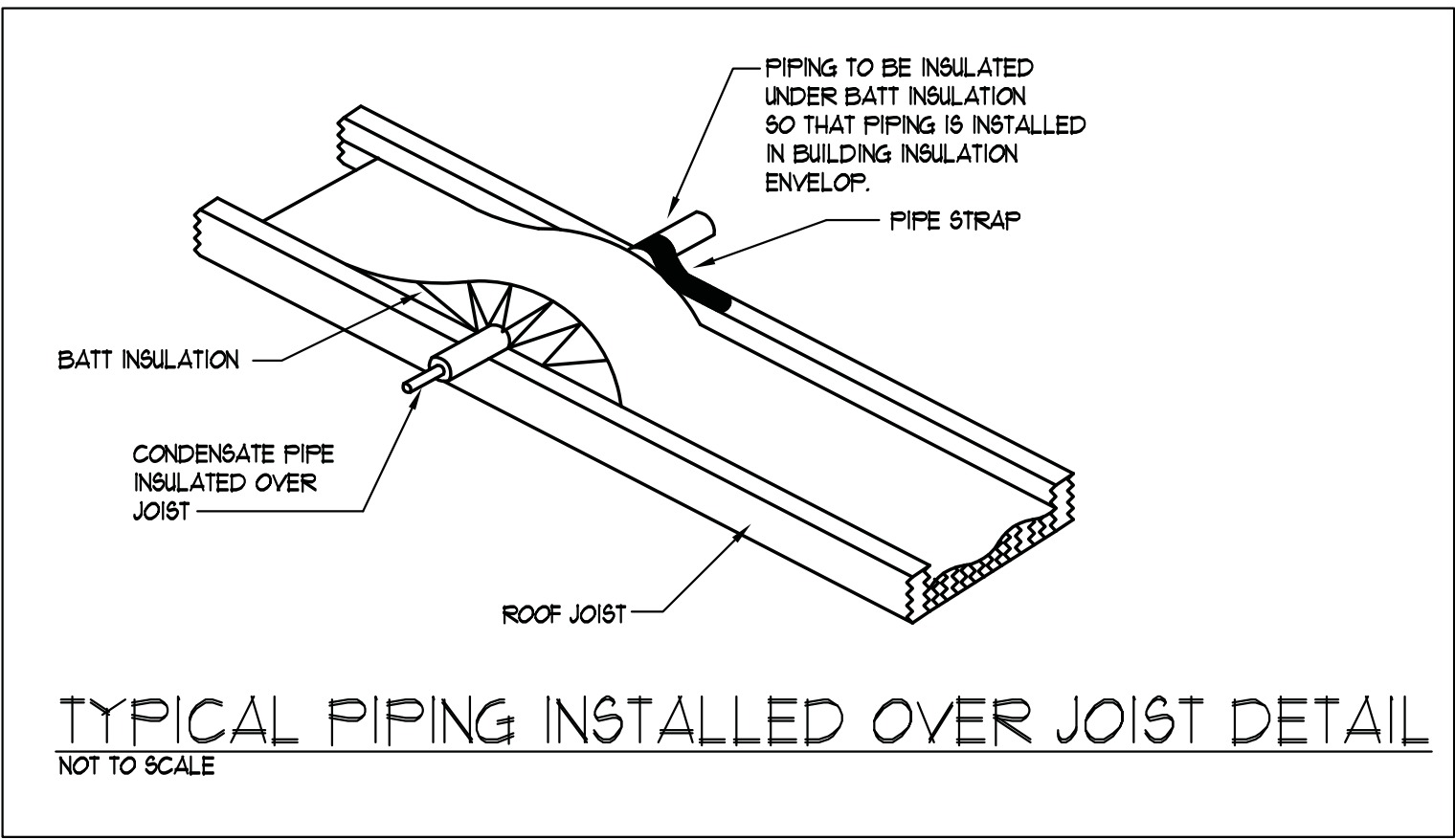
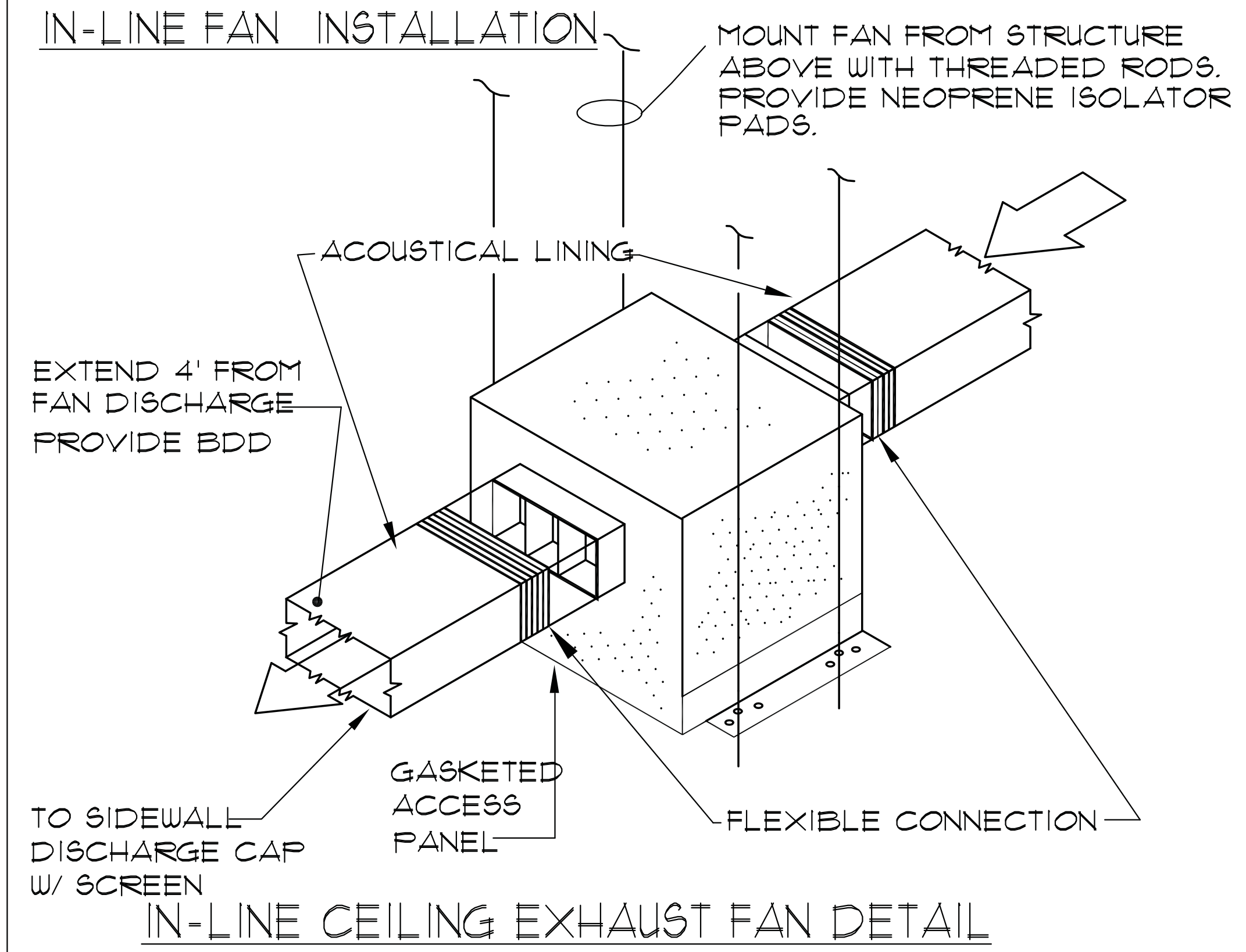
CITY OF GREENBELT
GREENBELT THEATER
RENOVATION

REVISIONS:	
DESIGN DEVELOP.	04.13.05
ISSUE FOR PERMIT	01.22.07
PERMIT COMMENTS	11.03.08
BID SET	04.08.09

SEAL:

DRAWN BY: CCS
CHECKED BY: NONE
DATE: 08/03/05
PROJECT NO: 03.0299

DRAWING NO: M5.3



GT MARCHITECTS

7735 OLD GEORGETOWN ROAD
SUITE 700
BETHESDA, MD 20814
(240)333-2000
(240)333-2001 FAX

25 CRESCENT ROAD
GREENBELT, MD 20710

DETAILS
MECHANICAL

**CITY OF GREENBELT
GREENBELT THEATER
RENOVATION**

REVISIONS:	
DESIGN DEVELOP.	04.13.05
ISSUE FOR PERMIT	01.22.07
Δ PERMIT COMMENTS	11.03.08
BID SET	04.08.09

DRAWN BY:
CCS

CHECKED BY:

SCALE:
NONE

DATE:
08/03/05

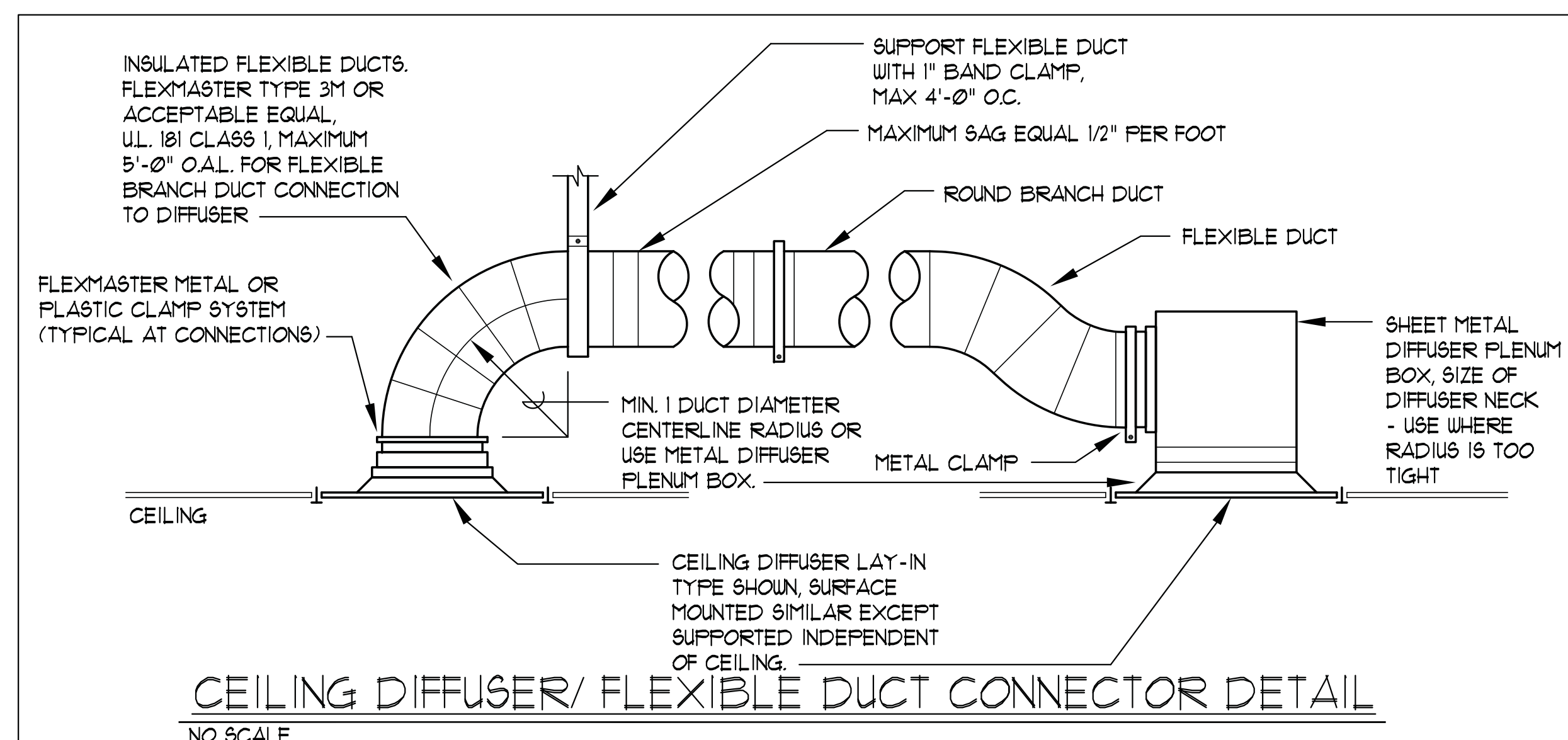
PROJECT NO.
03.0299

DRAWING NO.
M5.2

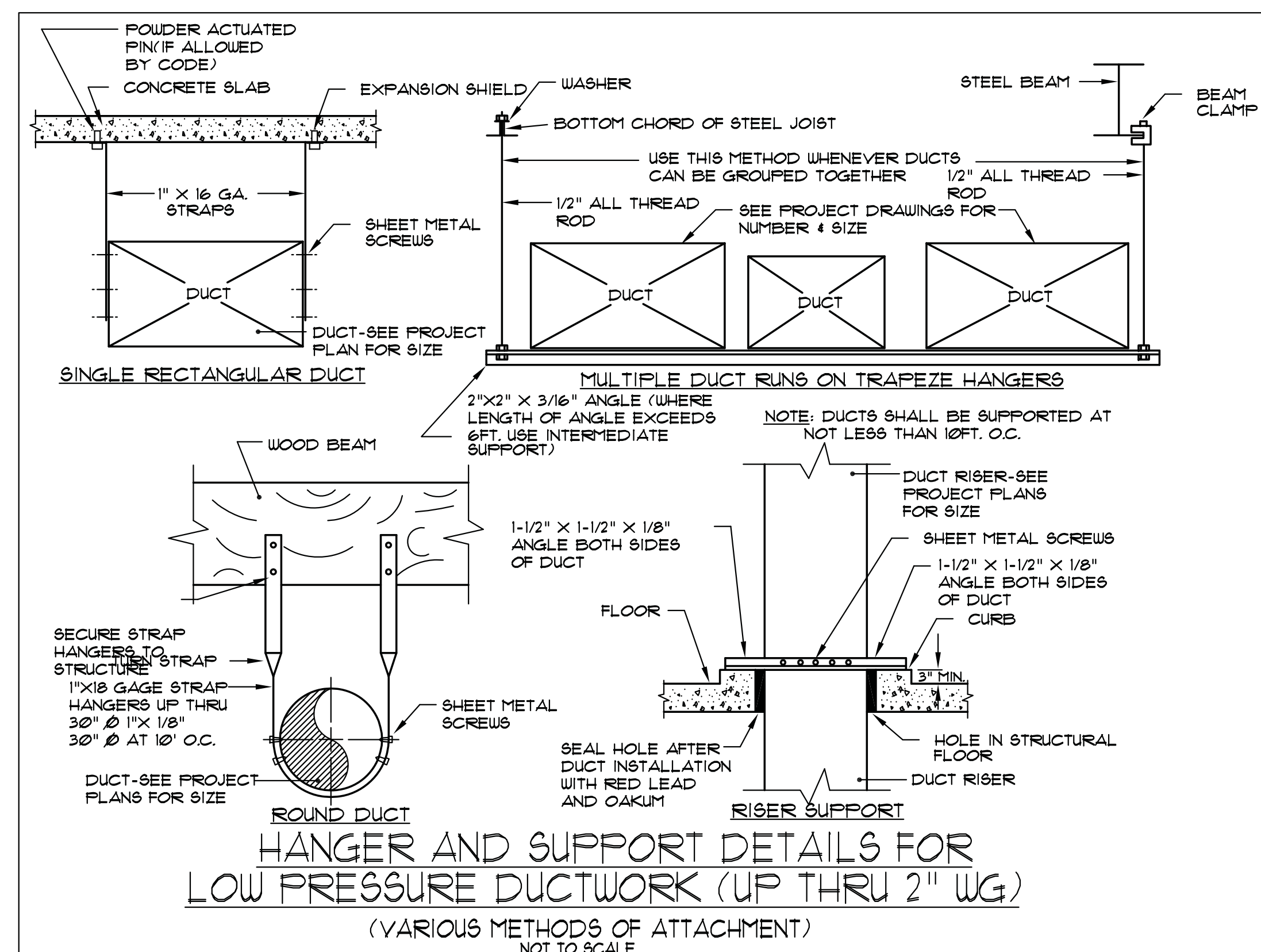
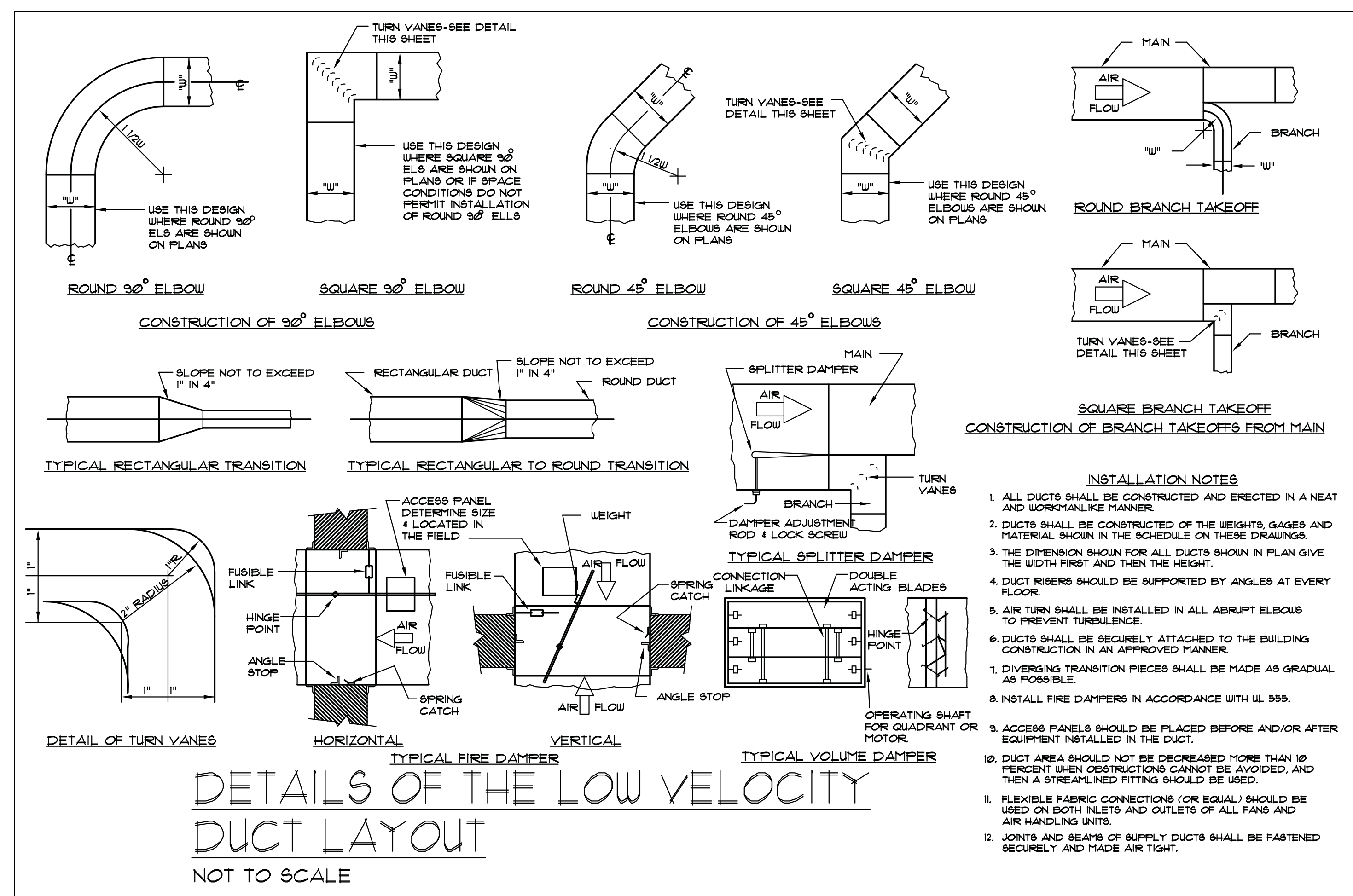
*PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM DULY LICENSED PROFESSIONAL ENGINEER UNDER LAWS OF THE STATE OF MARYLAND, LICENSE NO. 27541. EXPIRATION DATE: 12/31/2008.

HURST & ASSOCIATES
 CONSULTING ENGINEERS
 308 HILLWOOD AVE.
 FALLS CHURCH, VA. 22046
 (703) 534-7872

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DUCT CONSTRUCTION MINIMUM SHEET METAL THICKNESSES			
RECTANGULAR DUCTS			
MAXIMUM SIZE (INCHES)	STEEL (MINIMUM THICKNESS, NOMINAL)	ALUMINUM (MINIMUM THICKNESS, NOMINAL)	
THROUGH 12	0.022 INCH (26 GAGE, GALV.)	0.020 INCH (NO. 24 B&S GAGE)	
13 THROUGH 30	0.028 INCH (24 GAGE, GALV.)	0.025 INCH (NO. 22 B&S GAGE)	
31 THROUGH 54	0.034 INCH (22 GAGE, GALV.)	0.032 INCH (NO. 20 B&S GAGE)	
55 THROUGH 84	0.040 INCH (20 GAGE, GALV.)	0.040 INCH (NO. 18 B&S GAGE)	
OVER 84	0.052 INCH (18 GAGE, GALV.)	0.051 INCH (NO. 16 B&S GAGE)	
ROUND DUCTS			
MAXIMUM SIZE (INCHES)	SPIRAL SEAM DUCT	LONGITUDINAL SEAM DUCT	FITTINGS
	STEEL (MINIMUM THICKNESS, NOMINAL)	STEEL (MINIMUM THICKNESS, NOMINAL)	STEEL (MINIMUM THICKNESS, NOMINAL)
THROUGH 12	0.019 INCH (28 GAGE, GALV.)	0.022 INCH (26 GAGE, GALV.)	0.022 INCH (26 GAGE, GALV.)
13 THROUGH 18	0.022 INCH (26 GAGE, GALV.)	0.028 INCH (24 GAGE, GALV.)	0.028 INCH (24 GAGE, GALV.)
19 THROUGH 28	0.028 INCH (24 GAGE, GALV.)	0.034 INCH (22 GAGE, GALV.)	0.034 INCH (22 GAGE, GALV.)
29 THROUGH 36	0.034 INCH (22 GAGE, GALV.)	0.040 INCH (20 GAGE, GALV.)	0.040 INCH (20 GAGE, GALV.)
37 THROUGH 52	0.040 INCH (20 GAGE, GALV.)	0.052 INCH (18 GAGE, GALV.)	0.052 INCH (18 GAGE, GALV.)



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H & HURST & ASSOCIATES
CONSULTING ENGINEERS
308 HILLWOOD AVE.
FALLS CHURCH, VA. 22046
(703) 534-7872

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M5.1

PACKAGED ROOFTOP UNIT (RTU) SCHEDULE (DX COOLING/GAS HEATING)																									
UNIT MARK	MANUFACTURER & MODEL	LOCAT.	COOLING CAPACITY 95 F db - 61 F wb		HEATING CAPACITY		EVAPORATOR BLOWER			ELECTRICAL DATA												OPT. WT (LBS)	NOTES		
			TOTAL CAP. MBH	SENS. CAP. MBH	INPOT CAP. MBH	OUTPUT CAP. MBH	TOTAL CFM	O.A. CFM	ESP "H2O	COMPRESSOR(S)			EVAP. BLOWER		COND. FAN(S)		COMB. AIR FAN RLA	VOLTS	PH		UNIT MCA			UNIT MOCP (HACR)	
										QTY	RLA (EA)	LRA (EA)	HP	RLA (EA)	QTY	RLA (EA)									
RTU-1	CARRIER TME025	ROOF	223	122	360	232	8000	2000	12	2	42.0/33.6	239/225	15	25.0	2	6.6	.60	208	3	-	129	150	2250	1,3,4,6,7,8,9,10,11,13,121	
RTU-2	CARRIER TME020	ROOF	221	116	360	232	7400	1800	12	2	30.1/28.8	225/195	5.0	15.8	3	1.7	.60	208	3	-	92	110	2150	1,3,4,6,7,8,9,10,11,13,121	
RTU-3	CARRIER 48HFC006	ROOF	62.5	43.8	150	120	2000	480	10	1	11.3	123.0	-	5.8	1	1.5	.60	208	3	-	34.9	40	950	1,3,4,6,7,8,9,10,11,13,121	
RTU-4	CARRIER 48HFC004	ROOF	37.8	27.2	115	93	950	200	10	1	10.3	111.0	-	4.9	1	0.7	.60	208	3	-	24.5	30	750	1,3,4,6,7,8,9,10,11,13,121	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1. PROVIDE ROOF TOP UNIT WITH DUCT SMOKE DETECTOR IN RETURN AND SUPPLY AIR DUCT AS PER CODE. 2. ROOF TOP UNIT SHALL BE VERTICAL DISCHARGE TYPE WITH ROOF OPENINGS INSIDE OF FULL PERIMETER ROOF CURB. 3. ROOF TOP UNIT SHALL BE HORIZONTAL DISCHARGE TYPE. 4. PROVIDE ROOF TOP UNIT WITH ECONOMIZER PACKAGE, COMPLETE WITH ECONOMIZER HOOD, ENTHALPY CONTROLS AND SENSORS. 5. PROVIDE UNIT WITH DUAL POWER CONNECTIONS: (1) FOR FANS AND HEATING COMPONENTS-FURNACE AND CONTROLS (2) FOR THE REFRIGERANT COMPONENTS - COMPRESSORS AND CONDENSERS. WIRING BETWEEN FAN CIRCUITS AND EMERGENCY POWER AND TRANSFER SWITCH SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR AS NOTED IN DIVISION 16 OF THE SPECIFICATIONS. 6. PROVIDE ROOF TOP UNIT WITH FULL PERIMETER FACTORY FABRICATED, INSULATED ROOF CURB. 7. PROVIDE ROOF TOP UNIT WITH ANTI-SHORT CYCLE CONTROLS. 8. PROVIDE ROOF TOP UNIT WITH LOW AMBIENT COOLING CONTROLS. (MOTOR MASTER) 9. PROVIDE ROOF TOP UNIT WITH PROGRAMMABLE WALL MOUNTED THERMOSTAT. CONTRACTOR TO ALLOW FOR MOUNTING OF WALL THERMOSTAT IN SPACE SERVED BY RTU. FINAL LOCATION TO BE DETERMINED BY OWNER. CONTRACTOR TO MAKE PROVISION FOR ANY LOCATION CHOSEN. 10. PROVIDE UNIT WITH "HUMIDITROL" HUMIDITY CONTROL HOT GAS RECLAIM SYSTEM & CONTROLS INCLUDING HUMIDISTAT. (FOR TRANE SUBSTITUTION PROVIDE MORGANIZER SYSTEM) FOR OTHER PROVIDE SYSTEM EQUAL TO MOISTURE MIZER. 11. PROVIDE FLUE HOOD DISCHARGE DEFLECTOR W/ FLUE EXTENSION TO 42" ABOVE RTU. 12. PROVIDE 2 POSITION OUTSIDE AIR DAMPER. 13. PROVIDE UNIT W/ 120V CONVENIENCE OUTLET. 14. PROVIDE W/ 24" HIGH CURB 15. EMERGENCY HEAT CONTROL. 16. PROVIDE W/ COMPLETE OPERATIONAL "VVT-VARIABLE VOLUME TEMPERATURE" CONTROL SYSTEM AS SHOWN ON DWG. PROVIDE WITH CARRIER 3V CONTROLS. 17. PROVIDE W/ VIBRATION ISOLATION CURB ASSEMBLY. 18. PROVIDE W/ PHASE MONITORS AND CONTROL. 19. PROVIDE W/ MICRO-METAL CONCENTRIC DIFFUSER - DROP DIFFUSER - 4WAY THROW. 20. UNITS TO BE SUITABLE FOR USE OF PROPANE AS HEATING FUEL. 21. PROVIDE UNIT WITH CO2 SENSOR AND CONTROL TO MODULATE OUTSIDE AIR DAMPER (CARRIER 3V SYSTEM). 22. PROVIDE WITH CARRIER 3V CONTROL SYSTEM.																									

△

SET FOR 100 PPM CO2.

AIR DISTRIBUTION DEVICE SCHEDULE					
TYPE	DESCRIPTION	CFM RANGE	NECK	FACE	MFR MODEL (*) NOTES
CD-1, 2	SQUARE/RECT. CEILING DIFFUSER	AS SHOWN	AS SHOWN	LOUVER	TITUS TM9A-AA 1, 2, 3, 4, 5, 9, 12, 13
CD-3	ROUND CEILING DIFFUSER	AS SHOWN	AS SHOWN	LOUVER	TITUS TM9A-AA 1, 2, 3, 4, 5, 9, 12, 13
CR-1	CEILING REGISTER (SUPPLY)	AS SHOWN	AS SHOWN	BARs SINGLE DEFL	TITUS 301 FS 1, 2, 3, 4, 5, 7, 13
SUR-1	SIDEWALL REGISTER	AS SHOWN	AS SHOWN	AERO BARs DOUBLE DEFL	TITUS 272 RS 1/2, 3, 4, 5, 7, 13, 15
SUR-2	SIDEWALL REGISTER	AS SHOWN	AS SHOWN	BARs SINGLE DEFL	TITUS 301 FS 1/2, 3, 4, 5, 7, 13
RR-1 R/P	RETURN AIR DEVICE (CEILING)	AS SHOWN	AS SHOWN	PERFORATED	TITUS PAR-AA 1/2, 3, 4, 5, 13
RR-2	RETURN REGISTER (CEILING / WALL)	AS SHOWN	AS SHOWN	BARs AT 35° DEFL	TITUS 350-FL 1/2, 3, 4, 5, 6, 13
RR-3	RETURN REGISTER W/ FILTER	AS SHOWN	AS SHOWN	BARs AT 35° DEFL	TITUS 350 RFI 2, 3, 4, 6, 20, 21
ER-1	EXHAUST REGISTER (CEILING / WALL)	AS SHOWN	AS SHOWN	PERFORATED	TITUS PAR-AA 1/2, 3, 4, 5, 13
ER-2	EXHAUST REGISTER (CEILING / WALL)	AS SHOWN	AS SHOWN	BARs AT 35° DEFL	TITUS 355FL 1/2, 3, 4, 5, 6, 13
TG-1	TRANSFER GRILLE (CEILING)	AS SHOWN	AS SHOWN	PERFORATED	TITUS PAR-AA 1/2, 3, 4, 5, 13
TG-2	TRANSFER GRILLE (CEILING / WALL)	AS SHOWN	AS SHOWN	BARs AT 0° DEFL	TITUS 350-ZFL 1/2, 3, 4, 5, 6, 13
RP	RETURN PANEL (CEILING)	AS SHOWN	AS SHOWN	AS SHOWN	TITUS PAR-AA 1/2, 3, 4, 13
LD-1	LINEAR DIFFUSER (1-SLOT)	AS SHOWN	AS SHOWN	AS SHOWN	TITUS LL-1 2, 4, 22
<div>NOTES</div> <div>1. LAY-IN CEILING CONSTRUCTION. (*) 2. SURFACE MOUNTING ON CEILING OR EXPOSED. (*) 3. WHITE ENAMEL FINISH. 4. ALUMINUM CONSTRUCTION. 5. OPPOSED BLADE VOLUME DAMPER. 6. HORIZONTAL FACE BARs WITH DEFLECTION. 7. VERTICAL FACE BARs. 8. EXPOSED FACE VANES 9. 4-WAY DIRECTIONAL THROW (UNLESS OTHERWISE SHOWN) 10. NON-DUCTED 11. SQUARE NECK CONNECTION. 12. ROUND NECK CONNECTION 13. NECK TYPE AS SHOWN ON DRAWINGS. 14. FULL RADIUS THROW 15. DOUBLE DEFLECTION THROW. 16. VERTICAL TO HORIZONTAL AIR AIR PATTERN ADJUSTMENT 17. FLUSH MOUNT- FLANGE AS REQUIRED. 18. BIRD SCREEN 19. 45% NET AREA MIN. 20. FILTER TYPE REGISTER SUPPLY W/ FILTER 21. PROVIDE W/ SPARE FILTER. 22. LINEAR DIFFUSER W/ FACTORY PLENUM & JET THROW. 23. LINEAR DIFFUSER W/ INSULATED DUCT PLENUM * - CONTRACTOR SHALL VERIFY CEILING CONSTRUCTION TYPE PRIOR TO PURCHASING AND INSTALLATION. REFER TO ARCHITECTUAL DRAWINGS AND REFLECTED CEILING PLANS FOR CEILING TYPES.</div>					

FAN SCHEDULE												
UNIT MARK	MANUF	MODEL	TYPE	CFM	SP * H2O	RFM	HP (WATTS)	ELECTRICAL			REMARKS	SERVING
								AMPS	V	Ø		
EF-1	GREENHECK	CSP-A190	INLINE	100	0.3	1400	(100)	110	120	1	15,6,11,14,16,20,21	JANITOR
EF-2	GREENHECK	CSP-A110	INLINE	500	0.4	1080	(325)	4.40	120	1	15,6,11,14,16,20,21	WOMEN'S
EF-3	GREENHECK	CSP-AB10	INLINE	375	0.4	1070	(217)	3.11	120	1	15,6,11,14,16,20,21	MEN'S
EF-4	GREENHECK	SI-B-440-D	DIRECT DRIVE	250	0.2	1550	1/25	-	120	1	12,4,8,10,16,20,23	TICKET BOOTH
-	-	-	-	-	-	-	-	-	-	-	-	-
<div>1. PROVIDE WITH DISCONNECT SWITCH 2. PROVIDE WITH WALL MOUNTED "ON-OFF" SWITCH. 3. PROVIDE WITH SPEED CONTROLLER FAN MOUNTED UNLESS SHOWN OTHERWISE. 4. FAN SHALL BE THERMOSTATICALLY CONTROLLED BY WALL MOUNTED THERMOSTAT 5. FAN SHALL OPERATE CONTINUOUSLY. 6. PROVIDE W/ STARTER (WEATHERPROOF AS REQUIRED) 7. PROVIDE FAN SPEED CONTROLLER MOUNTED IN WEATHERPROOF NEMA ENCLOSURE 8. FAN TO BE PROVIDED WITH TIME CLOCK FOR OPERATION. PARAGON DIGITAL MODEL WITH 7-DAY PROGRAMMING. 9. INTERLOCK W/ MOTORIZED DAMPER 10. FAN TO BE ON EMERGENCY GENERATOR 11. PROVIDE W/ BACKDRAFT DAMPER (ALUMINUM) 12. PROVIDE W/ HINGED CURB 13. PROVIDE W/ FACTORY SUPPLIED, INSULATED CURB SUITABLE FOR FAN. CURB SLOPED AS 14. PROVIDE W/ FACTORY SUPPLIED, ROOF CAP DISCHARGE. 15. PROVIDE W/ FACTORY SUPPLIED, WALL DISCHARGE. 16. ALL ALUM. CONSTRUCTION 17. PROVIDE W/ STAINLESS STEEL SHAFT. 18. PROVIDE W/ EXTERNAL INLET VANE DAMPER. 20. PROVIDE W/ WALL/CEILING MOUNTING BRACKET & SEPARATE SAFETY CHAIN. 21. PROVIDE WITH VIBRATION HANGERS 22. PROVIDE W/ SPARE SET OF BELTS. 23. PROVIDE W/ SAFETY ENCLOSURE 24. PROVIDE W/ BIRD SCREEN 25. FAN CONTROLLED BY ARMSTRONG CARBON MONOXIDE MONITORING SYSTEM. 26. FAN INTERLOCKED WITH KITCHEN EXHAUST HOOD CONTROL SYSTEM 27. PROVIDE WITH DIRECT GAS FIRED HEATER W/ MODULATING GAS VALVE, AND DUCT SENSOR 28. PROVIDE W/ FILTER RACKS & WASHABLE FILTERS. 29. SEE CONTROL SEQUENCE FOR ADDITIONAL CONTROL REQUIREMENTS. 30. PROVIDE W/ MOTORIZED DAMPER</div>												

HURST & ASSOCIATES
CONSULTING ENGINEERS
308 HILLWOOD AVE.
FALLS CHURCH, VA. 22046
(703) 534-7872

NOTE:
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PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM DULY LICENSED PROFESSIONAL ENGINEER UNDER LAWS OF THE STATE OF MARYLAND, LICENSE NO. 22541. EXPIRATION DATE: 03/01/2026.

REVISIONS:	
DESIGN DEVELOP.	04.18.05
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△ PERMIT COMMENTS	11.03.08
△ PERMIT COMMENTS	08.02.09
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CHECKED BY:	
SCALE: NONE	
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PROJECT NO. 03.0299	
DRAWING NO.	

M4.1

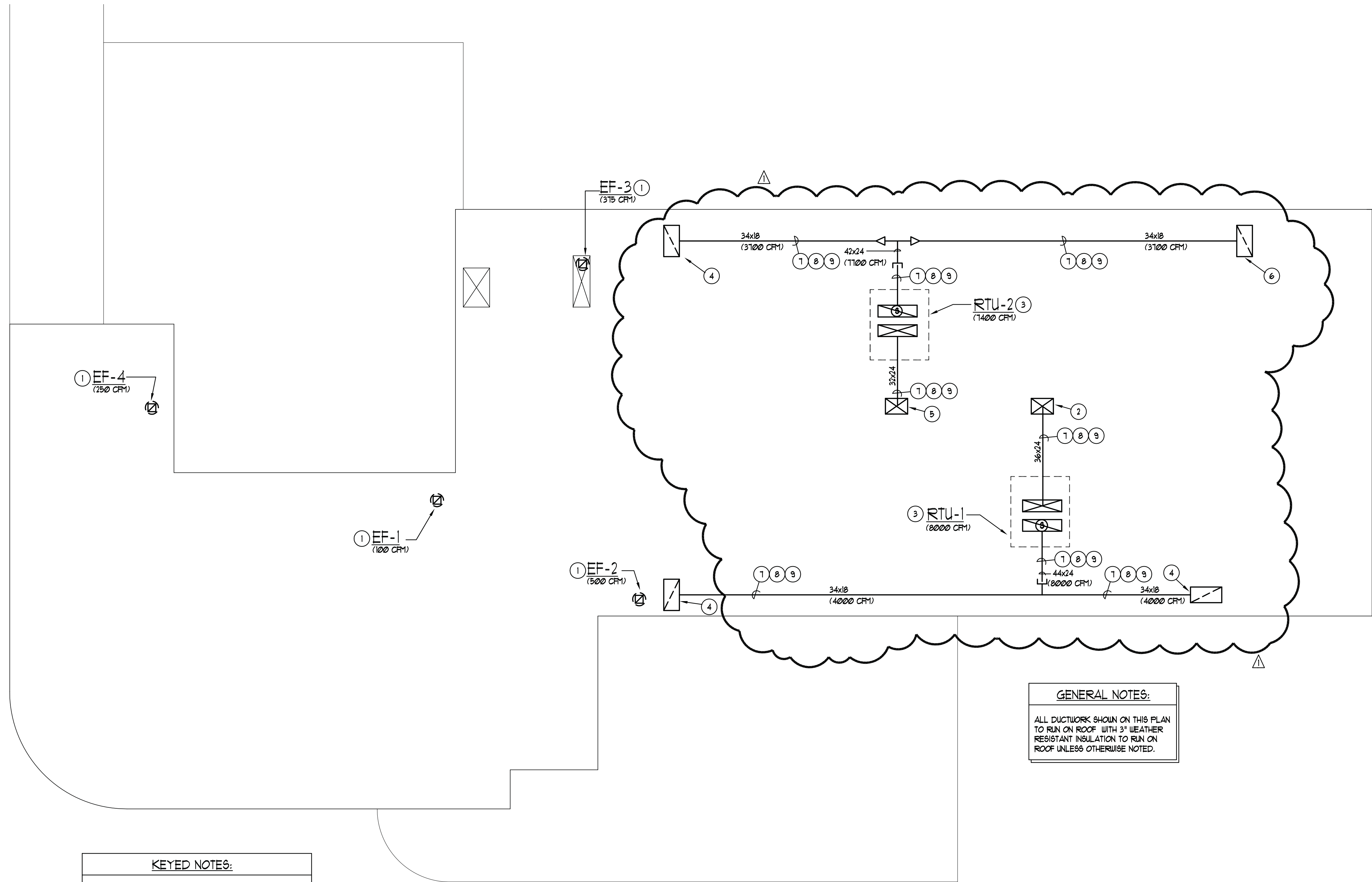
CITY OF GREENBELT
GREENBELT THEATER
RENOVATION

25 CRESCENT ROAD
GREENBELT, MD 20710

MECHANICAL
SCHEDULES

GTM
GTMARCHITECTS
7735 OLD GEORGETOWN ROAD
SUITE 700
BETHESDA, MD 20814
(240)333-2000
(240)333-2001 FAX

FILE NAME: 777



- KEYED NOTES:**
- 1. PRV EXHAUST FAN. SEE M3.2 FOR CONTINUATION.
 - 2. 36"x24" SUPPLY DUCT DOWN TO SECOND FLOOR CEILING SPACE. SEE M3.2 FOR CONTINUATION.
 - 3. ROOFTOP UNIT ON ROOF. SUPPLY AND RETURN AIR DUCT DOWN. SEE M3.2 FOR CONTINUATION.
 - 4. 48"x24" RETURN AIR DUCT DOWN TO RETURN REGISTER UP HIGH. SEE M3.2 FOR REGISTER SIZE.
 - 5. 32"x24" SUPPLY DUCT DOWN TO SECOND FLOOR CEILING SPACE. SEE M3.2 FOR CONTINUATION.
 - 6. 48"x24" RETURN AIR DUCT DOWN TO FIRST FLOOR.
 - 7. DUCTWORK W/ 3" WEATHERPROOF INSULATION.
 - 8. DUCTWORK W/ 1" ACOUSTICAL DUCT LINER.
 - 9. ROOF MOUNTED DUCTWORK 16" ABOVE ROOF DECK WITH MICRO MOUNTING LEGS.

ROOF PLAN - MECHANICAL
SCALE: 1/8"=1'-0"

GENERAL NOTES:

ALL DUCTWORK SHOWN ON THIS PLAN TO RUN ON ROOF WITH 3" WEATHER RESISTANT INSULATION TO RUN ON ROOF UNLESS OTHERWISE NOTED.

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CONSULTING ENGINEERS
308 HILLWOOD AVE.
FALLS CHURCH, VA. 22046
(703) 534-7872

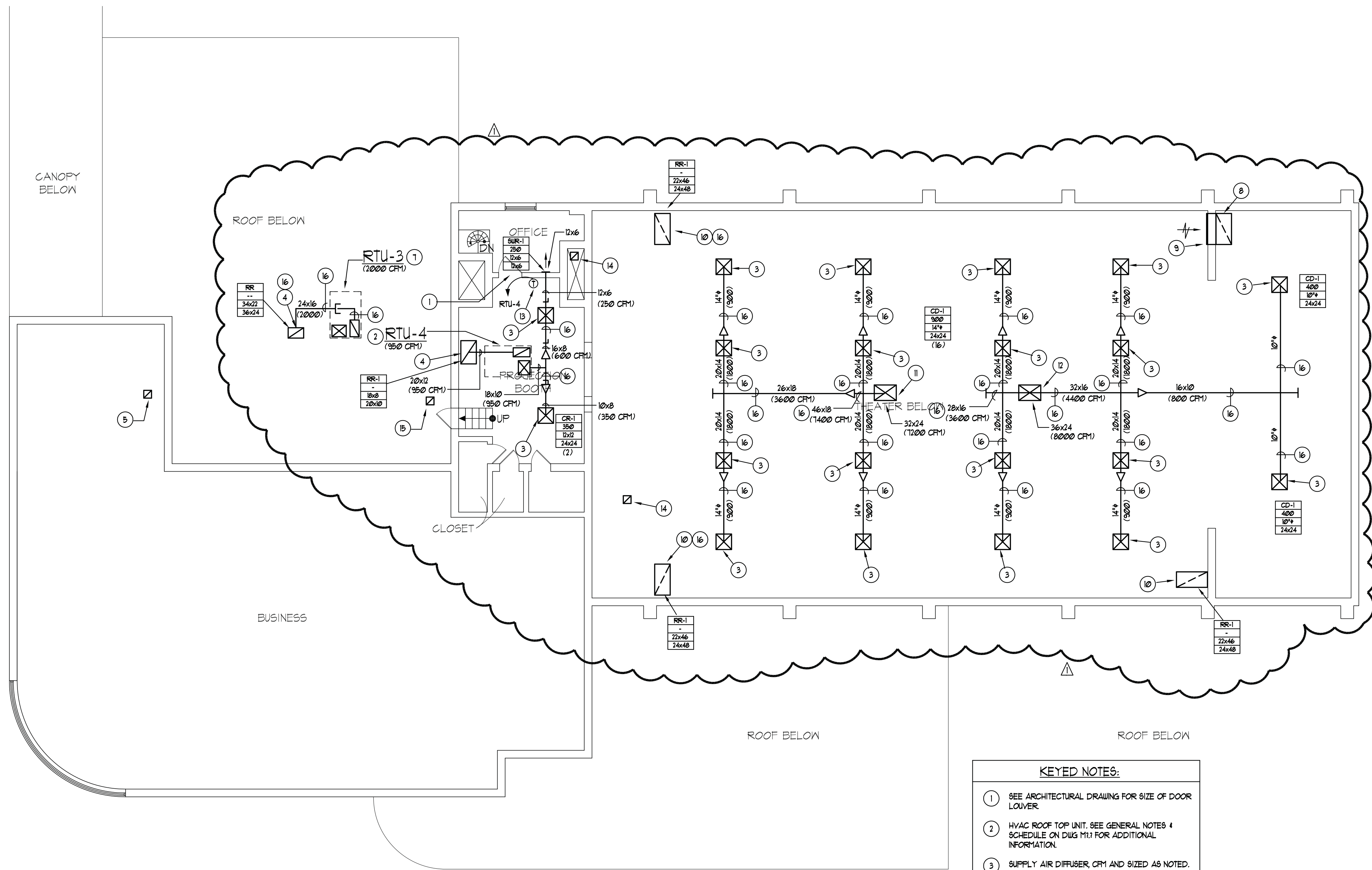
NOTE:
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SCALE:	1/8" = 1'-0"
DATE:	08/03/05
PROJECT NO.	03.0299
DRAWING NO.	

M3.3



SECOND FLOOR

SECOND FLOOR PLAN - MECHANICAL
SCALE: 1/8"=1'-0"

- KEYED NOTES:**
- 1 SEE ARCHITECTURAL DRAWING FOR SIZE OF DOOR LOUVER.
 - 2 HVAC ROOF TOP UNIT. SEE GENERAL NOTES 4 SCHEDULE ON DUG M11 FOR ADDITIONAL INFORMATION.
 - 3 SUPPLY AIR DIFFUSER, CFM AND SIZED AS NOTED. S.A.D. SHALL HAVE A TOTAL STATIC PRESSURE DROP OF 0.12" OR LESS. SEE DETAIL M5
 - 4 E.A.G. 4 R.A.G. CFM AND SIZED AS NOTED. GRILLE SHALL HAVE A TOTAL STATIC PRESSURE DROP OF 0.12" OR LESS. SEE DETAIL M5
 - 5 10"x8 EXHAUST DUCT UP TO PRV ON ROOF.
 - 6 LOW-HIGH 18"x18 RETURN AIR REGISTER
 - 7 ROOFTOP UNIT ON ROOF. SUPPLY AND RETURN AIR DUCT DOWN. SEE M3.1 FOR CONTINUATION.
 - 8 48"x24 RETURN AIR DUCT DOWN TIGHT TO WALL TO FINISHED FLOOR.
 - 9 48"x24" RETURN AIR REGISTER HIGH ON WALL.
 - 10 RETURN AIR REGISTER UP HIGH. SEE M3.3 FOR CONTINUATION.
 - 11 32"x24 S.A. DUCT UP TO RTU ON ROOF. SEE M3.3 FOR CONTINUATION W/ ACOUSTICAL DUCT LINER.
 - 12 36"x24 S.A. DUCT UP TO RTU ON ROOF. SEE M3.3 FOR CONTINUATION.
 - 13 WALL MOUNTED THERMOSTAT. 48" AFF.
 - 14 12"x10 EXHAUST DUCT UP TO PRV ON ROOF.
 - 15 8"x6 EXHAUST DUCT UP TO PRV ON ROOF.
 - 16 DUCTWORK W/ ACOUSTICAL DUCT LINER

HURST & ASSOCIATES
CONSULTING ENGINEERS
308 HILLWOOD AVE.
FALLS CHURCH, VA. 22046
(703) 534-7872

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GTM ARCHITECTS
7735 OLD GEORGETOWN ROAD
SUITE 700
BETHESDA, MD 20814
(240)333-2000
(240)333-2001 FAX

25 CRESCENT ROAD
GREENBELT, MD 20710
MECHANICAL
SECOND FLOOR PLAN

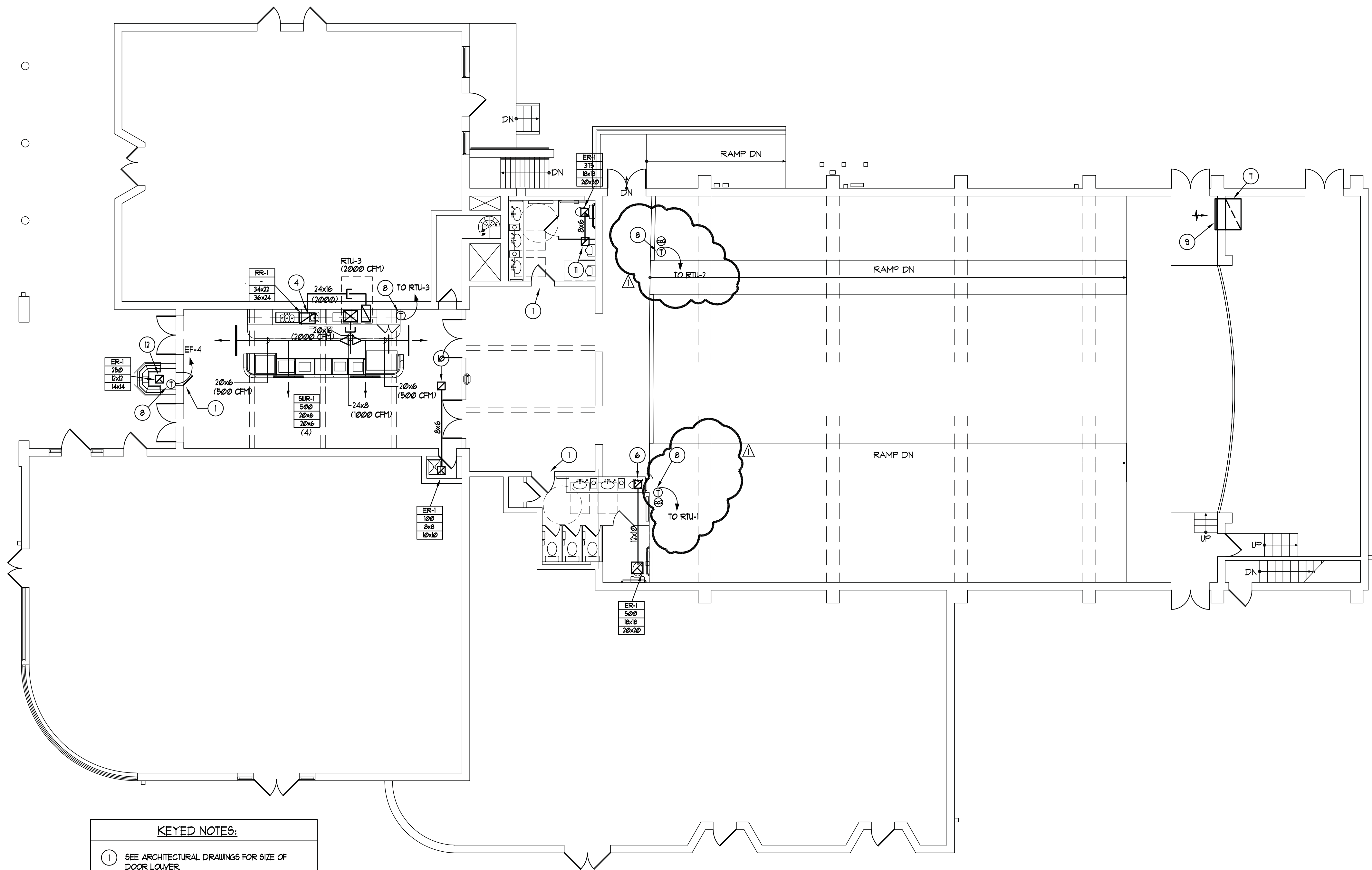
CITY OF GREENBELT
GREENBELT THEATER
RENOVATION

REVISIONS:	
DESIGN DEVELOP.	04.13.05
ISSUE FOR PERMIT	01.22.07
PERMIT COMMENTS	11.03.08
BID SET	04.08.09

SEAL:

DRAWN BY: REL
CHECKED BY:
SCALE: 1/8" = 1'-0"
DATE: 08/03/05
PROJECT NO. 03.0299

DRAWING NO.
M3.2



FIRST FLOOR PLAN - MECHANICAL

SCALE: 1/8" = 1'-0"

KEYED NOTES:

1. SEE ARCHITECTURAL DRAWINGS FOR SIZE OF DOOR LOUVER.
2. HVAC ROOF TOP UNIT, SEE GENERAL NOTES AND SCHEDULE ON DRAWINGS M1.1 FOR ADDITIONAL INFORMATION.
3. SUPPLY AIR DIFFUSER, CFM AND SIZED AS NOTED. S.A.D. SHALL HAVE A TOTAL STATIC PRESSURE DROP OF 0.12" OR LESS. SEE DETAIL M5.
4. E.A.G. AND R.A.G. CFM AND SIZED AS NOTED. GRILLE SHALL HAVE A TOTAL STATIC PRESSURE DROP OF 0.12" OR LESS. SEE DETAIL M5.
5. 10x10 EXHAUST DUCT UP TO PRV ON ROOF.
6. 12x10 EXHAUST DUCT UP TO PRV ON ROOF.
7. 48x24 RETURN AIR DUCT TIGHT TO WALL TO FINISHED FLOOR. PROVIDE A 48x24" RETURN AIR REGISTER LOW WALL. DUCT LINED W/ 1" ACOUSTICAL DUCT LINER.
8. WALL MOUNTED THERMOSTAT, MOUNT 48" AFF. W/ CO2 SENSOR FOR CONTROL OF OUTSIDE AIR.
9. 48x24" RETURN AIR REGISTER LOW ON WALL.
10. 8x6 EXHAUST DUCT UP TO PRV ON ROOF.
11. 12x10 EXHAUST DUCT UP TO PRV ON ROOF.
12. 10x8 EXHAUST DUCT UP TO PRV ON ROOF.

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PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM DULY LICENSED PROFESSIONAL ENGINEER UNDER LAWS OF THE STATE OF MARYLAND, LICENSE NO. 22541.
EXPIRATION DATE: 12/31/2022.

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BID SET	04.08.09

SEAL:

DRAWN BY:

CHECKED BY:

SCALE:

1/8" = 1'-0"

DATE:

08/03/05

PROJECT NO.

03.0299

DRAWING NO.

M3.1

GENERAL MECHANICAL NOTES

- 1). THE MECHANICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF STATE AND LOCAL CODES AND APPLICABLE JURISDICTIONAL BODIES.
- 2). THE CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS AND PAY FOR ALL PERMITS, FEES, CHARGES AND INSPECTION REQUIRED, AS WELL AS APPLICABLE HAULING, RIGGING AND TRANSPORTATION CHARGES APPLICABLE TO HIS WORK.
- 3). THE PROJECT SHALL BE BID ON THE BASIS OF SPECIFIED PRODUCT(S) WHICH ESTABLISH MINIMUM QUALITY REQUIREMENTS. WHERE MORE THAN ONE PRODUCT NAME IS INDICATED, BIDS SHALL BE BASED ON ONE OF THE NAMED PRODUCTS. ALL MECHANICAL EQUIPMENT SHOWN ON CONTRACT DOCUMENTS SHALL BE NEW, SHALL BE UL LISTED AND SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR UNLESS OTHERWISE NOTED.
- A) WHERE USE OF AN "ACCEPTABLE EQUAL" PRODUCT REQUIRES CHANGES TO THE BASE BID DESIGN IN ORDER TO INCORPORATE THE PRODUCT INTO THE PROJECT, THE CONTRACTOR SHALL SUBMIT A LAYOUT SHOWING ALL CHANGES TO ARCHITECTURAL, STRUCTURAL, ELECTRICAL, PLUMBING AND MECHANICAL REQUIREMENTS AT NO ADDITIONAL COST TO THE OWNER. THE LAYOUT SHALL ACCOMPANY THE PRODUCT SUBMITTAL DATA. COST OF CHANGES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- B) SUBSTITUTIONS FOR "ACCEPTABLE EQUAL" PRODUCTS NOT SPECIFIED WILL BE CONSIDERED WHEN INCLUDED WITH SUBMISSION OF THE BID AND SHALL BE SUBJECT TO ACCEPTANCE BY THE ENGINEER. PROPOSALS FOR SUBSTITUTIONS SHALL INCLUDE, BUT NOT LIMITED TO: (1) ANY CREDIT OR ADDED COST; (2) PRODUCT IDENTIFICATION (3) CODE COMPLIANCE; (4) REFERENCED STANDARD COMPLIANCE AND (5) DESCRIPTION OF ALL CHANGES INCLUDING ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND MECHANICAL REQUIRED TO INCORPORATE SUBSTITUTED PRODUCT INTO THE PROJECT. THE OWNER RESERVES THE RIGHT TO REJECT PROPOSED SUBSTITUTIONS.
- C) WHERE "OR EQUAL" PRODUCTS ARE INDICATED, THE BIDDER SHALL SUBMIT A LIST OF PROPOSED EQUAL SUBSTITUTE PRODUCTS WITH THE BID. THE LIST SHALL INCLUDE ADEQUATE SUPPORTING INFORMATION AS PROOF OF EQUALITY IN ORDER TO BE CONSIDERED ACCEPTABLE. NO LATER SUBSTITUTES WILL BE CONSIDERED.
- D) SUBSTITUTION SUBMISSIONS OF SPECIFIED EQUAL PRODUCTS SHALL PROVIDE THE SAME GUARANTEE AS SPECIFIED FOR BASE BID PRODUCTS.
- SUBSTITUTIONS - SUBSTITUTION OF SPECIFIED EQUAL PRODUCTS POLICY:
ALL EQUIPMENT AND MATERIAL SUBSTITUTIONS NOT SPECIFICALLY APPROVED IN THESE DRAWINGS SHALL REQUIRE THE FOLLOWING TO BE CONSIDERED:
- SUBSTITUTIONS MUST BE APPROVED IN WRITING BY THE OWNER BEFORE SUBMISSION FOR ENGINEERING REVIEW. SUBMISSION SHALL BE AS PER SPECIFICATION AND AS CALLED FOR BELOW.
- SUBSTITUTIONS & APPROVED EQUALS MUST BE PROVIDED WITH A TABULATION OF ALL PERTINENT INFORMATION ASSOCIATED WITH THE EQUIPMENT OR MATERIAL. TABULATION SHALL SHOW SPECIFIED MATERIAL OR EQUIPMENT CHARACTERISTICS WITH PROPOSED EQUIPMENT INFORMATION SHALL INCLUDE, BUT NOT LIMITED TO: ALL ELECTRICAL CHARACTERISTICS, PHYSICAL SIZE, OPERATING CAPACITIES AND PERFORMANCE, COMPLIANCE WITH ALL CODE AND DESIGN REQUIREMENTS, COST SAVINGS TO OWNER, AS APPLICABLE, ETC.
- CONTRACTOR SHALL PROVIDE WRITTEN STATEMENT AS TO CONTRACTOR GUARANTEEING AND WARRANTING SUBSTITUTION TO COMPLY WITH ALL DESIGN CRITERIA AND THEIR ACCEPTANCE OF SOLE RESPONSIBILITY FOR ANY COST ASSOCIATED WITH ANY TRADES AS A RESULT OF THE SUBSTITUTION.
- REVIEW OF ANY SUBSTITUTION OR APPROVED EQUAL BY ENGINEER SHALL BE FOR GENERAL COMPLIANCE ONLY. CONTRACTOR SHALL HAVE SOLE RESPONSIBILITY FOR SUBSTITUTIONS COMPLIANCE WITH DESIGN REQUIREMENTS OF SPECIFIED EQUIPMENT OR MATERIAL, INCLUDING ANY AND ALL COSTS TO OTHER TRADES AND REQUIRED MODIFICATIONS TO THE PROJECT.
- SUBSTITUTIONS SUBMITTED WITHOUT THE REQUIRED INFORMATION LISTED ABOVE SHALL NOT BE REVIEWED AND SHALL BE RETURNED TO THE CONTRACTOR WITH THE CONTRACTOR BEARING ALL COSTS ASSOCIATED WITH ANY DELAY RESULTING.
- 4). THE CONTRACTOR SHALL VERIFY FIELD CONDITIONS FOR POINTS OF CONNECTIONS, CAPACITIES AND ELEVATIONS OF SYSTEMS. IN ALL AREAS AFFECTED BY THE PROJECT, CUT, PATCH, REPAIR AND/OR REPLACE ALL MATERIALS REQUIRED TO INCORPORATE WORK. FINISHES DAMAGED AS A RESULT OF WORK SHALL BE REPAIRED TO MATCH APPROPRIATE ADJACENT FINISHES. FILL VOIDS AROUND DUCTWORK PENETRATING WALLS WITH FIRE STOPPING MATERIAL (THERMA-FIBER OR EQUAL).
- 5). MECHANICAL EQUIPMENT AND PRODUCTS SHALL BE LISTED AND/OR LABELED BY AN APPROVED TESTING OR INSPECTION AGENCY IN ACCORDANCE WITH LOCAL AND GOVERNING CODE REQUIREMENTS.
- 6). THE DRAWINGS ARE DIAGNRAMATIC AND INDICATE THE GENERAL ARRANGEMENT OF WORK INCLUDED IN THE PROJECT. DO NOT SCALE THE DRAWING. THE CONTRACTOR SHALL ESTABLISH FINAL DIMENSIONS FROM FIELD MEASUREMENTS PRIOR TO STARTING WORK. THE WORD "PROVIDE" AS USED IN THE PROJECT SHALL BE DEFINED AS "FURNISH AND INSTALL".
- 7). MECHANICAL WORK SHALL BE COORDINATED WITH THE WORK OF ALL OTHER TRADES PRIOR TO INSTALLATION TO AVOID CONFLICTS AND ALLOCATE SPACE REQUIREMENTS.
- 8). EQUIPMENT AND PRODUCT MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS FOR INSTALLATION AND OPERATION SHALL BE FOLLOWED IN PERFORMING MECHANICAL WORK UNLESS OTHERWISE INDICATED OR DIRECTED. MATERIALS AND METHODS USED IN THE WORK SHALL BE COMPATIBLE WITH BUILDING CONDITIONS AND COMPLY WITH THE BUILDING CODE REQUIREMENTS, WHICH SHALL BE THE BASIS FOR MINIMUM PRODUCT QUALITY. ALL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER BY SKILLED WORKMEN EXPERIENCED IN THEIR TRADE. THE WORK SHALL BE SUBJECT TO THE ACCEPTANCE OF THE OWNER OR THE DULY AUTHORIZED REPRESENTATIVE.
- 9). DUCTWORK SHALL BE FABRICATED OF GALVANIZED SHEET METAL WITH CONSTRUCTION AND INSTALLATION IN ACCORDANCE WITH SMACNA STANDARDS AND SYSTEM REQUIREMENTS. SHEETMETAL GAGES SHALL CONFORM TO THE MECHANICAL CODE, ASHRAE STANDARDS AND UL LISTED FIRE RESISTANCE DIRECTORY REQUIREMENTS AS APPLICABLE. DUCTWORK SIZES SHOWN ARE NET CLEAR INSIDE DIMENSIONS. FABRICATE SHEETMETAL FOR INTERNALLY LINED DUCTS TO ALLOW FOR THICKNESS OF INSULATION AND MAINTAIN NET CLEAR DIMENSIONS. CONTRACTOR SHALL VERIFY ACTUAL AVAILABLE DUCT SPACE PRIOR TO FABRICATION AND INSTALLATION OF DUCTWORK. SHOULD A CONFLICT OCCUR THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND ENGINEER BEFORE CONTINUING. ALL RECTANGULAR DUCTWORK ELBOWS SHALL BE PROVIDED WITH TURNING VANES.
- 10). DUCTWORK SHALL BE SEALED WITH AN APPROVED DUCT MASTIC OR LIQUID SEALANT AS MANUFACTURED BY UNITED MCGILL CORP. OR APPROVED EQUAL. DUCT SYSTEM LEAKAGE SHALL CONFORM WITH SMACNA "HYVAC DUCT LEAKAGE TEST" MANUAL.
- FOR PRIMARY AIR: CLASS 3" WIG. SEAL CLASS 6, LEAKAGE CLASS 12 FOR RECTANGULAR DUCTS AND LEAKAGE CLASS 6 FOR ROUND DUCTS
FOR SECONDARY AIR: CLASS 1" WIG. SEAL CLASS 24 FOR RECTANGULAR DUCTS AND CLASS 12 FOR ROUND DUCTWORK.
- 11). ALL DUCTWORK SHALL BE FABRICATED FROM FIELD CONFIRMED CONDITIONS. NO ALLOWANCE PERMITTED FOR DUCTWORK NOT USED.
- 12). PROVIDE FIRE AND SMOKE DAMPERS IN HVAC AIR DISTRIBUTION SYSTEMS THAT PENETRATE FIRE OR SMOKE RATED ASSEMBLIES IN ACCORDANCE WITH THE BUILDING AND MECHANICAL CODES. DAMPERS SHALL BE IN ALL SUPPLY / RETURN / EXHAUST / OUTSIDE AIR DUCTS THAT PENETRATE RATED ASSEMBLIES IN ADDITION TO ALL SECONDARY DAMPERS FOR CEILING / WALL AND FLOOR MOUNTED AIR DEVICES. COORDINATE SPECIFIC FIRE RESISTIVE CONSTRUCTION REQUIREMENTS WITH THE FIRE RATED ASSEMBLIES INDICATED ON ARCHITECTURAL DRAWINGS. THROUGH PENETRATIONS FIRESTOP SYSTEMS SHALL CONFORM TO UL LISTED FIRE RESISTANCE DIRECTORY OR OTHER METHODS ACCEPTABLE TO LOCAL GOVERNING CODE AUTHORITIES.
- 13). PROVIDE ALL NECESSARY FOUNDATIONS, SUPPORTS, PADS AND BASES AS REQUIRED FOR MECHANICAL EQUIPMENT, PIPING AND DUCTWORK AS PER INTERNATIONAL BUILDING AND MECHANICAL CODE REQUIREMENTS. INSTALL EQUIPMENT, PIPING AND DUCTWORK SO AS TO BE FREE FROM OBJECTIONABLE NOISE AND VIBRATIONS. CONTRACTOR SHALL COORDINATE WORK WITH STRUCTURAL AND ARCHITECTURAL DRAWINGS PRIOR TO ACTUAL WORK.
- 14). ELECTRIC MOTORS FOR MECHANICAL EQUIPMENT SHALL BE PROVIDED UNDER MECHANICAL WORK UNLESS OTHERWISE NOTED. ALL MOTORS SHALL BE NEMA STANDARD DESIGN FOR QUIET OPERATION AND SIZED TO PROPERLY OPERATE EQUIPMENT AT RATED LOAD. MOTORS WITH BELT DRIVES SHALL BE PROVIDED WITH ADJUSTABLE PULLEYS AND SHAFTS. ELECTRICAL POWER CONNECTIONS FOR MECHANICAL EQUIPMENT SHALL BE PROVIDED UNDER ELECTRICAL WORK.
- 15). MOTOR STARTERS, RELAYS AND CONTACTORS SHALL BE FURNISHED UNDER THE MECHANICAL WORK AND INSTALLED AND POWERED UNDER THE ELECTRICAL WORK. STARTERS RELAYS AND CONTACTORS SHALL BE COMPLETE WITH LUGS SIZED FOR SPECIFIED CONDUCTORS AND INCLUDE REQUIRED ACCESSORIES (I.E. START-STOP PUSH BUTTON PILOT LIGHTS, HOA SWITCH, AUXILIARY CONTACTS AND OVERLOAD PROTECTION). GENERAL PURPOSE NEMA TYPE 1 ENCLOSURES INDOORS, NEMA TYPE 3K ENCLOSURES OUTDOORS. SINGLE PHASE MOTOR STARTERS SHALL BE MANUAL TYPE WITH OVERLOAD PROTECTION UNLESS OTHERWISE NOTED. THREE PHASE STARTERS SHALL BE MAGNETIC FULL VOLTAGE, NON-REVERSING UNLESS OTHERWISE NOTED. STARTERS FOR MECHANICAL SYSTEMS SHALL BE AS MANUFACTURED BY SQUARE-D. GENERAL ELECTRIC OR CUTLER HAMMER STARTERS SHALL CONFORM TO NEMA STANDARDS AND NATIONAL ELECTRIC CODE (NEC) REQUIREMENTS. STARTER CONTROL AND INTERLOCK WIRING SHALL BE PROVIDED UNDER THE MECHANICAL WORK.

16). DUCT SMOKE DETECTORS SHALL BE INSTALLED IN ALL AIR DISTRIBUTION SYSTEMS WITH A DESIGN CAPACITY OF 2000 CFM OR GREATER. DETECTORS SHALL BE PROVIDED BY THE MECHANICAL CODE AND NATIONAL FIRE PREVENTION CODE NFPA 72. DUCT SMOKE DETECTORS SHALL BE "DUAL CONTACTS" TYPE (FOR TIE-IN TO FIRE ALARM SYSTEM AND FOR FAN SHUT-DOWN). COMPLETE WITH SAMPLING TUBE, REMOTE RESET, REMOTE PILOT INDICATOR (FOR CONCEALED APPLICATIONS), UL LISTED FOR INTENDED USE AND COMPLETELY COMPATIBLE WITH FIRE ALARM SYSTEM. DUCT SMOKE DETECTORS SHALL BE PROVIDED AND INSTALLED UNDER THE MECHANICAL WORK AND WIRED AND POWERED UNDER THE ELECTRICAL WORK. PROVIDE SMOKE DAMPER AT ALL SMOKE BARRIER PENETRATION AS PER BUILDING CODE.

17). PROVIDE AUTOMATIC TEMPERATURE CONTROL SYSTEM(S) FOR HVAC EQUIPMENT UNDER MECHANICAL WORK. CONTROL PRODUCTS, ALL MECHANICAL EQUIPMENT SHOWN ON CONTRACT DOCUMENTS SHALL BE NEW, SHALL BE UL LISTED AND SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR UNLESS OTHERWISE NOTED. HVAC EQUIPMENT NOT PROVIDED WITH CONTROL DEVICES SHALL BE PROVIDED WITH DEVICES AS MANUFACTURED BY "TRANS" OR APPROVED EQUAL. DEVICES(S) SHALL BE FULLY COMPATIBLE AND SUITABLE FOR INTENDED USE. CONTROL WIRING SHALL BE PROVIDED IN ACCORDANCE WITH THE NEC. FOR 24 VOLT CONTROL SYSTEM(S) WIRING SHALL BE A MINIMUM 12 AWG, COLOR CODED AND INSTALLED IN CONDUIT WHERE SUBJECT TO PHYSICAL DAMAGE OR WHERE REQUIRED TO AVOID FLEAM SPACES. EXTEND ALL LOW VOLTAGE WIRING UNBROKEN BETWEEN EACH CONTROL DEVICE AND EQUIPMENT TERMINAL STRIP. INSTALLATION OF CONTROL SYSTEM(S) WIRING AND DEVICES SHALL BE BY A CERTIFIED CONTROLS CONTRACTOR WITH A MINIMUM OF FIVE (5) YEARS EXPERIENCE IN THE INSTALLATION AND SERVICING OF CONTROLS.

18). PIPING SHOWN IS SCHEMATIC AND DOES NOT INDICATE EVERY OFFSET, ELBOW, UNION, VALVE, TRAP, ACCESS PANEL, ETC. THAT IS REQUIRED FOR A COMPLETE WORKING SYSTEM. PROVIDE ITEMS AND FITTINGS THAT ARE REQUIRED TO INSTALL THE PIPING SYSTEM WITHIN THE SPACE PROVIDED AND THAT ARE REQUIRED FOR A COMPLETE SYSTEM. PIPING SHALL BE PROPERLY SECURED IN ACCORDANCE WITH "MSS" STANDARD SP-63. PROVIDE PIPE SADDLES AND HIGH DENSITY BLOCKING AT HANGERS FOR INSULATED PIPING.

19). PROVIDE REFRIGERANT PIPING IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S REQUIREMENTS. VERIFY LINE SIZES FOR EQUIPMENT USED. PIPING SHALL BE COPPER TYPE "A-CR" WITH FORGED OR WROUGHT COPPER FITTINGS CONFORMING TO ASTM B300 AND COPPER DEVELOPMENT ASSOCIATION STANDARDS. JOINTS SHALL BE MADE WITH SOLDER SİLDS OR APPROVED EQUAL. REFRIGERANT PIPING JOINTS IN CONCEALED SPACES ARE NOT ACCEPTABLE.

20). CONDENSATE DRAIN PIPING SHALL BE COPPER TYPE "M" WITH LEAD-FREE (95/5) SOLDERED JOINTS. PIPING AND FITTINGS SHALL CONFORM TO ASTM B88 AND THE COPPER DEVELOPMENT ASSOCIATION STANDARDS.

21). INSULATION MATERIALS SHALL BE "CERTAIN-TEED" OR APPROVED EQUAL. INSULATION MATERIALS SHALL HAVE A FLAME SPREAD RATING NOT MORE THAN 25 AND A SMOKE DEVELOPED RATING OF NOT MORE THAN 50. PROVIDE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND AS FOLLOWS:

DUCTWORK:

A). SUPPLY/RETURN 4 O.A. AIR DUCTS (CONCEALED): INSULATE WITH NOMINAL TWO (2) INCH THICK TYPE T5 STANDARD DUCTURAP WITH "FSK" FACING, VAPOR BARRIER. MINIMUM 1-1/2" INSTALLED THICKNESS WITH 5/8" R" VALUE.

B). SUPPLY/RETURN 4 O.A. AIR DUCTS (INTERIOR EXPOSED WHERE INDICATED): INSULATE WITH ONE (1) INCH THICK TYPE 200 "ULTRA-LITE" ACOUSTICAL DUCT LINER WITH 100% ADHESIVE COVERAGE AND MECHANICAL FASTENERS. MINIMUM INSTALLED R" VALUE OF 3.1.

C). SUPPLY/RETURN 4 O.A. AIR DUCTS (CONCEALED IN ATTIC/GRAIL/ROOF CEILING SPACE): INSULATE WITH NOMINAL THREE (3) INCH THICK TYPE T5 STANDARD DUCT URAP WITH "FSK" FACING, VAPOR BARRIER. MINIMUM 2-1/4" INSTALLED THICKNESS WITH 85 R" VALUE.

D). SUPPLY/RETURN/EXHAUST/OUTSIDE AIR DUCTS (EXPOSED TO WEATHER CONDITIONS): INSULATE DUCTWORK EXTERIOR WITH SEMI-RIGID FIBERGLASS BOARD INSULATION, TYPE B3000, 3.0 LBS./CUFT DENSITY, MINIMUM 2" INSTALLED THICKNESS WITH 85 R" VALUE. PROVIDE WEATHERPROOF FINISH AS MANUFACTURED BY FOSTER'S "MONOLAR" 60-95 COATINGS (MIN. OF 3 COATS) OR APPROVED EQUAL.

PIPING:

A). CONDENSATE DRAIN: INSULATE WITH CLOSED CELL FLEXIBLE ELASTOMERIC PIPE INSULATION, 1/2" THICK. (DO NOT INSULATE CONDENSATE DRAIN PIPING BELOW GRADE OR LOCATED OUTSIDE).

B). REFRIGERANT PIPING (SUCTION LINE): INSULATE PIPING WITH "CLOSED-CELL" FLEXIBLE ELASTOMERIC INSULATION, 1/2" THICK. PROVIDE WITH WEATHER RESISTANT FINISH ON INSULATION EXPOSED TO OUTDOORS. INSULATION SHALL BE ARISTON, HALSTEAD OR APPROVED EQUAL.

22). INSTRUCTION AND IDENTIFICATION: WRITTEN INSTRUCTIONS IN A SINGLE BINDER DESCRIBING THE PROPER OPERATION AND MAINTENANCE OF EQUIPMENT AND SYSTEMS SHALL BE PROVIDED TO THE OWNER AT THE COMPLETION OF THE WORK. THE CONTRACTOR SHALL DEMONSTRATE AND INSTRUCT THE OPERATION OF SYSTEMS TO THE OWNER'S REPRESENTATIVE. ALL VALVES, CONTROLS, ETC. SHALL BE PERMANENTLY IDENTIFIED AND LABELED WITH METAL TAGS OR ENGRAVED NAMEPLATES AS APPLICABLE. COORDINATE WITH HVAC ZONE SCHEDULE.

23). UPON COMPLETION OF THE INSTALLATION, AIR SYSTEMS SHALL BE ADJUSTED AND BALANCED TO PROVIDE THE AIR QUANTITIES INDICATED. PROVIDE VOLUME DAMPERS, SPLITTER DAMPERS AND/OR VOLUME EXTRACTORS AS INDICATED OR REQUIRED FOR BALANCING. BALANCING WORK SHALL BE PERFORMED BY A CERTIFIED BALANCING CONTRACTOR WHO IS A MEMBER IN GOOD STANDING OF ASHRAE, NEBS OR SMACNA. BALANCING WORK SHALL BE IN COMPLIANCE WITH THE STANDARD PROCEDURE MANUAL PUBLISHED BY TESTING AND BALANCING ORGANIZATION AFFILIATED WITH THE BALANCING CONTRACTOR. SUBMIT APPROPRIATE FIELD DATA ON STANDARD FORMS OF T-4-B ORGANIZATION IN ACCORDANCE WITH STANDARD PROCEDURES. CONTRACTOR TO PROVIDE OWNER W/ 5 COPIES OF REPORT.

24). PROJECT PREMISES SHALL BE THOROUGHLY CLEANED AND READY FOR OCCUPANCY INCLUDING ALL FINISHES OF EQUIPMENT PROVIDED AS PART OF THE CONTRACTORS WORK. PROVIDE ONE (1) NEW SET OF CLEAN AIR FILTERS FOR PROJECT CLOSE OUT.

25). THE CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF ACCEPTANCE BY THE OWNER AND SHALL REPAIR OR REPLACE AT NO ADDITIONAL COST TO THE OWNER ANY PART THEREOF WHICH MAY BECOME DEFECTIVE DURING THE PERIOD OF GUARANTEE, ORDINARY WEAR AND TEAR EXCEPTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND PAY FOR ANY DAMAGES RESULTING FROM OR CAUSED BY DEFECTS IN HISHER WORK.

26). ALL GAS FIRED APPLIANCE VENTS USED FOR THE PRODUCTS OF COMBUSTION FOR MECHANICAL EQUIPMENT SHALL BE POSITIVE PRESSURE, INSULATED, STAINLESS STEEL TYPE, AGA CERTIFIED, UL LISTED. CONTRACTOR SHALL COORDINATE VENT ROUTING, INSTALLATION AND CONNECTION SIZE TO APPLIANCE PRIOR TO PURCHASING, FABRICATION AND INSTALLATION OF VENT.

27). PROVIDE ACCESS DOORS IN ALL SYSTEM BOARD CEILING(S) WALL AND FLOOR ASSEMBLIES REQUIRED FOR SERVICING/ACCESS OF MECHANICAL EQUIPMENT AND ASSOCIATED DEVICES. ACCESS DOOR SHALL BE SUITABLE FOR USE IN ASSEMBLY INSTALLED IN AND SHALL MATCH FIRE RATING (IF APPLICABLE) OF ASSEMBLY.

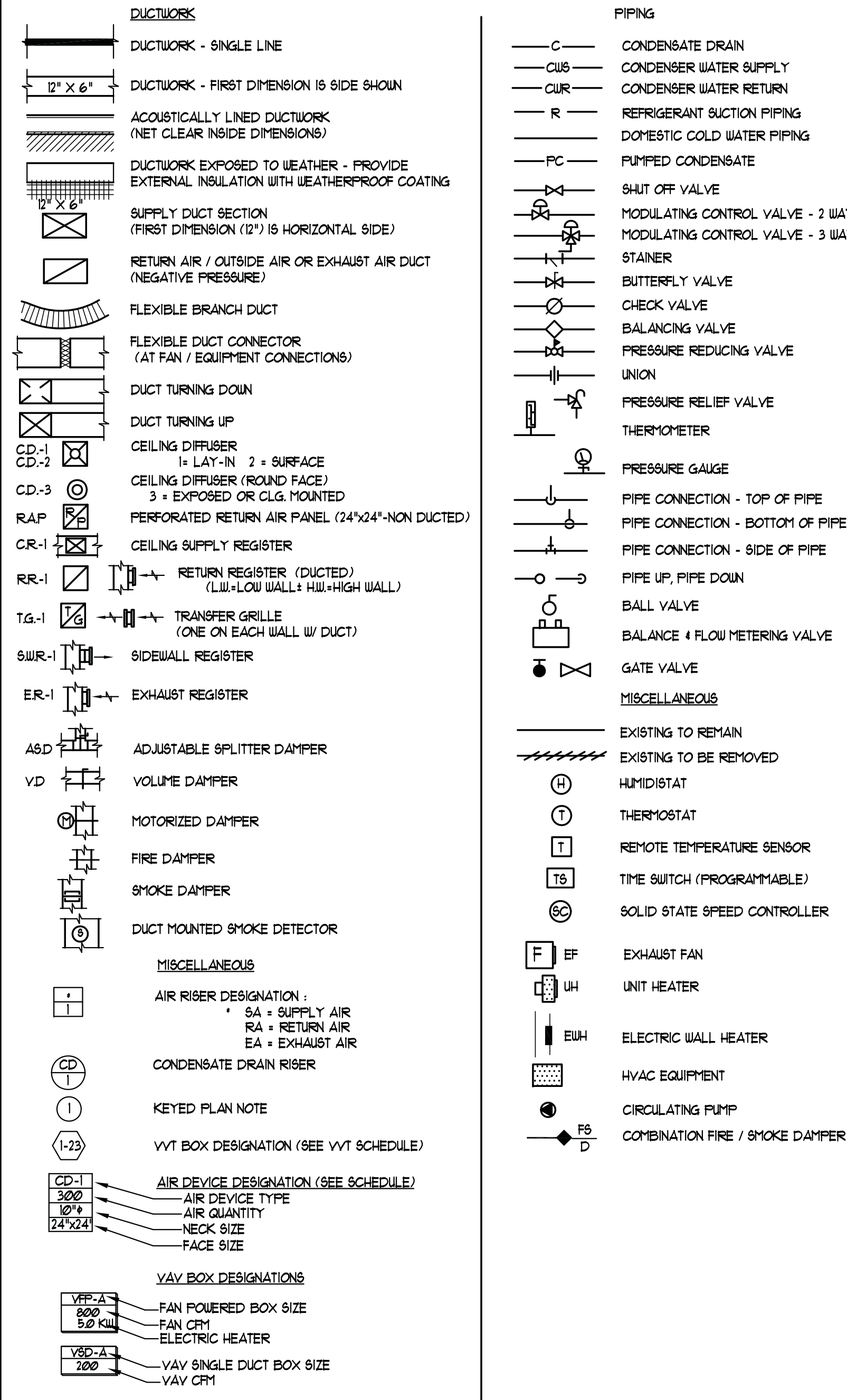
28). REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR FINAL LOCATION OF AIR DISTRIBUTION DEVICES SHOWN ON MECHANICAL DRAWINGS. CONTRACTOR SHALL NOTIFY THE ENGINEER SHOULD A CONFLICT OCCUR.

GENERAL EQUIPMENT INSTALLATION NOTES

- ALL FIRE AND SMOKE DAMPERS TO BE UL LISTED AND LABELED AND IN COMPLIANCE WITH INTERNATIONAL MECHANICAL CODE.
- PROVIDE FLUSH ACCESS DOORS FOR ALL DAMPERS, VALVES AND OTHER CONCEALED MECHANICAL EQUIPMENT REQUIRING ADJUSTMENT AND INSPECTION. DOORS SHALL BE WISHED TO SURROUNDING FINISHES OR AS REQUIRED BY ARCHITECTURAL DRAWINGS. ACCESS DOORS TO HAVE UL FIRE RATING EQUAL TO SURROUNDING SURFACES.
- PROVIDE IDENTIFICATION AND LABELS FOR ALL ACCESS DOORS IN DUCTWORK TO ACCESS FIRE/SMOKE DAMPERS.
- NO FLEX DUCT ALLOWED ABOVE DRYWALL CEILING. ALL DUCTWORK TO BE GALVANIZED STEEL SIZE AS PER SMACNA 1 BCG. MAX FLEX DUCT LENGTH 6'-0".
- DUCTWORK LAYOUT IS TO BE CAREFULLY COORDINATED WITH OTHER TRADES INCLUDING STRUCTURAL, PLUMBING, ELECTRICAL AND SPRINKLER DUCTWORK LAYOUT TO BE FABRICATED FROM FIELD CONFIRMED DIMENSIONS.

SYMBOLS

(ALL SYMBOLS MAY NOT APPEAR ON PROJECT DRAWINGS)



ABBREVIATIONS

(ALL ABBREVIATIONS MAY NOT APPEAR ON PROJECT DUGS)

A/C	AIR CONDITIONING UNIT
ACCU	AIR COOLED CONDENSING UNIT
AD	ACCESS DOOR
AP	ACCESS PANEL
ACT	ACOUSTICAL TILE CEILING
AHU	AIR HANDLING UNIT
ASD	ADJUSTABLE SPLITTER DAMPER
ATC	AUTOMATIC TEMPERATURE CONTROL
BHP	BRAKE HORSE POWER
BTUH	BRITISH THERMAL UNIT
CFM	CUBIC FEET PER MINUTE
CONV	CONVECTOR
CJH	CABINET HEAT HEATER
CU	CONDENSING UNIT
DIA	DIAMETER
DISCH	DISCHARGE
DOWN	DRAWING
DB F	DRY BULB TEMPERATURE
EFF	EFFICIENCY
EAT	ENTERING AIR TEMPERATURE
EAT	FREASURE REDUCING VALVE
EA	EXHAUST AIR
ESP	EXTERNAL STATIC PRESSURE
(E)	EXISTING TO REMAIN IN PLACE
ECH	ELECTRIC CEILING HEATER
EDH	ELECTRIC DUCT HEATER
EF	EXHAUST FAN
EUH	ELECTRIC UNIT HEATER
EUH	ELECTRIC WALL HEATER
FD	FIRE DAMPER
GPM	GALLON PER MINUTE
GPH	GALLON PER HOUR
GUH	GAS FIRED UNIT HEATER
HZ	FREQUENCY
HVAC	HEATING-AIR-CONDITIONING UNIT
H.O.A.	HANDS-OFF-AUTO
HPIS	HEAT PUMP INDOOR SECTION
HPIS	HEAT PUMP OUTDOOR SECTION
KW	KILOWATT
LA	LEAVING AIR TEMPERATURE
LAT	LEAVING WATER TEMPERATURE
LUT	MAK-UP AIR UNIT
MCC	MOTOR CONTROL CENTER
MM	MOUNTING HEIGHT
MD	MOTOR OPERATED DAMPER
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
OBVD	OPPOSED BLADE VOLUME DAMPER
OSD	OPEN SITE DRAIN
OA	OUTSIDE AIR-OU OUTSIDE AIR UNIT
PSIG	POUNDS PER SQUARE INCH GAUGE
PRV	POWER ROOF VENTILATOR
PDU	POOL DEHUMIDIFICATION UNIT
PCU	POOL CONDENSING UNIT
PTAC	PACKAGED TERMINAL AIR CONDITIONING UNIT
PTHF	PACKAGED TERMINAL HEAT PUMP UNIT
P	PUMP (SEE SCHEDULE FOR TYPE)
PD	PRESSURE DROP (FT OF HEAD UNLESS OTHERWISE SPECIFIED).
RA	RETURN AIR
RAF	RETURN AIR FAN
RD	RADIATION DAMPER
(RE)	EXISTING TO BE RELOCATED
RLH	RELIEF HOOD
RTU	ROOF TOP UNIT
RD	RELIEF DAMPER
SA	SUPPLY AIR
SD	SNOKE DAMPER
SP	SUPPLY FAN
SF	STATIC PRESSURE (INCHES H2O UNLESS OTHERWISE SPECIFIED).
UC	UNDERCUT DOOR
UCN	UNLESS OTHERWISE NOTED
UV	UNIT VENTILATOR
VD	VOLUME DAMPER
VAV	VARIABLE AIR VOLUME
VVT	VARIABLE VOLUME TEMPERATURE
WG	WATER GAUGE
WDH	WATER PRESSURE DROP
WSP-H	WATER SOURCE HEAT PUMP
WB F	WET BULB TEMPERATURE
	EXISTING TO BE REMOVED.

CONDENSATE DRAINAGE

ALL HVAC UNITS TO HAVE HARD PIPED COPPER CONDENSATE DRAINAGE SYSTEM. MINIMUM PIPE SIZE SHALL BE 1" PLUS INSULATION. CONDENSATE SHALL BE PIPED TO STORM DRAINAGE SYSTEM. CONTRACTOR TO PROVIDE SHOP DRAWINGS (1/8" SCALE) INDICATING PROPOSED LAYOUT OF CONDENSATE PIPING SYSTEM. CONTRACTOR TO PROVIDE CONDENSATE PUMPS AS REQUIRED W/ POWER.

- ALL CONDENSATE PIPING TO BE SIZED AND FITCHED PER IMC.
- CONDENSATE PUMPS LOCATED IN PLENUMS TO BE "PLENUM" RATED.
- CONTRACTOR SHALL PROVIDE IN HIS PRICE ALL ELECTRICAL AND PLUMBING WORK REQUIRED FOR A COMPLETE AND OPERATIONAL CONDENSATE REMOVAL SYSTEM.

VENTILATION AIR

ALL OCCUPIED SPACES ARE DESIGNED TO COMPLY WITH IMC 2020, CHAPTER 4, SECTION 403 & TABLE 403.3 REQUIREMENTS.

ROOF TOP DUCT SUPPORTS - MIRO INDUSTRIES

- MIRO INDUSTRIES MODEL 205
- MIRO INDUSTRIES 180071686916
- DUCT SUPPORTS TO BE INSTALLED PER MANUFACTURER SPECIFICATIONS. MAXIMUM SPACING 8'-0".
- PROVIDE SUPPORT AT EACH SIDE OF DUCT ELBOWS.
- PROVIDE RESTRAINT FRAMES.
- PROVIDE WITH INSULATION SHIELDS TO PREVENT DAMAGE TO DUCTWORK INSULATION OR VAPOR BARRIER.
- SUPPORT TO BE THERMALLY ISOLATED FROM DUCTWORK.

HURST & ASSOCIATES
CONSULTING ENGINEERS
308 HILLWOOD AVE.
FALLS CHURCH, VA. 22046
(703) 534-7872

NOTE:

THE CONSTRUCTION OF THIS PROJECT REQUIRES THE CONTRACTOR TO COORDINATE WORK SHOWN ON THIS DRAWING WITH THAT OF ALL OTHER TRADES. IN ADDITION, ALL PIPING, CONDUITS, DUCTWORK, ETC. ARE TO BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) AND TO MAINTAIN THE INTENT OF THE REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CHANGES RESULTING FROM CONFLICTS WITH OTHER TRADES AND WORK. IN THE EVENT OF ANY CONFLICTS THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER OR THEIR REPRESENTATIVE IN WRITING FOR CLARIFICATION BEFORE PROCEEDING.

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER LAWS OF THE STATE OF MARYLAND, LICENSE NO. 725941. EXPIRATION DATE: 12/30/2028.

REVISIONS:	
DESIGN DEVELOP.	09.19.05
ISSUE FOR PERMIT	01.22.07
△ PERMIT COMMENTS	11.03.09
BID SET	09.08.04

SEAL:

DRAWN BY:

REL

CHECKED BY:

SCALE:
NONE

DATE:

08/03/05

PROJECT NO.

03.0299

DRAWING NO.

M1.1

PANELBOARD SCHEDULE																	
PANEL: A (NEW)			LOCATION: LOBBY			FEEDER: SEE RISER			MAINS: 225A MLO			A.I.C.: 65K					
VOLTAGE: 120/208			PHASE: 3			WIRE: 4			BUSSING: COPPER			FED FROM: MDP			MOUNTING: SURFACE		
DESCRIPTION		WATTAGE			BRANCH BREAKER SIZE	OKT. NO.	ABC	OKT. NO.	BRANCH BREAKER SIZE	WATTAGE			DESCRIPTION				
		A Ø	B Ø	C Ø						A Ø	B Ø	C Ø					
LIGHTING LOBBY		900			1/20*	1		2	1/20*	500			LIGHTING MEN'S ROOM				
LIGHTING WOMEN'S ROOM		360			1/20*	3		4	1/20*	1200			LIGHTING FOYER				
LIGHTING THEATER			800		1/20	5		6	1/20*		1800		LIGHTING THEATER				
THEATER		1800			1/20*	7		8	1/20*	300			LIGHTING STORAGE				
RECEPTACLE GFI		180			1/20	9		10	1/20	360			CASH REGISTER RECEPTACLE				
EXHAUST FAN EF-1			100		1/20	11		12	1/20		720		LOBBY RECEPTACLES				
EXHAUST FAN EF-4		300			1/20	13		14	1/20	1080			RECEPTACLES FOYER				
EXHAUST FAN EF-3			220		1/20	15		16	1/20	360			RECEPTACLE THEATER				
EXHAUST FAN EF-2			350		1/20	17		18	1/20		360		RECEPTACLE THEATER				
RECEPTACLES STORAGE		400			1/20	19		20	1/20	720			RECEPTACLE CONCESSION AREA				
GARBAGE DISPOSAL			1000		1/20	21		22	1/20*	500			OUTDOOR LIGHTING FIXTURES				
LIGHTING CANOPY			1600		1/20*	23		24	1/20		1000		OUTSIDE SIGN				
OUTSIDE SIGN		1000			1/20	25		26	1/20	1000			OUTSIDE SIGN				
OUTSIDE SIGN			1000		1/20	27		28	2		2250		WATER HEATER				
EWG			1200		1/20	29		30	30		2250						
A - ICE MACHINE		600			1/25	31		32	1/20	180			RECEPTACLE GFI				
B - SODA MACHINE			600		1/20	33		34	1/20	400			C - BUTTER SERVER				
E - BEVERAGE CHILLER			600		1/20	35		36	3		2850		D - POPCORN MACHINE				
SPARE		180			1/20	37		38		2860			SPACE WITH PROVISIONS				
SPARE			180		1/20	39		40	30		2850		SPACE WITH PROVISIONS				
SPARE			180		1/20	41		42	1/20		200		SPARE				
SUBTOTALS:		7480	5160	4630	SUBTOTALS: 8250 7920 9180												
*A" PHASE TOTAL: 15,730			*B" PHASE TOTAL: 13,080			*C" PHASE TOTAL: 14,010			* PROVIDE C/B GUARD								
TOTAL LOAD: 42,820		WATTS AT 208V X/3		VOLTS, 3 PHASE, 4 WIRE 119 AMPS		-											
HIGH PHASE: 15,730		WATTS AT 120		VOLTS, 1 PHASE 131 AMPS		-											

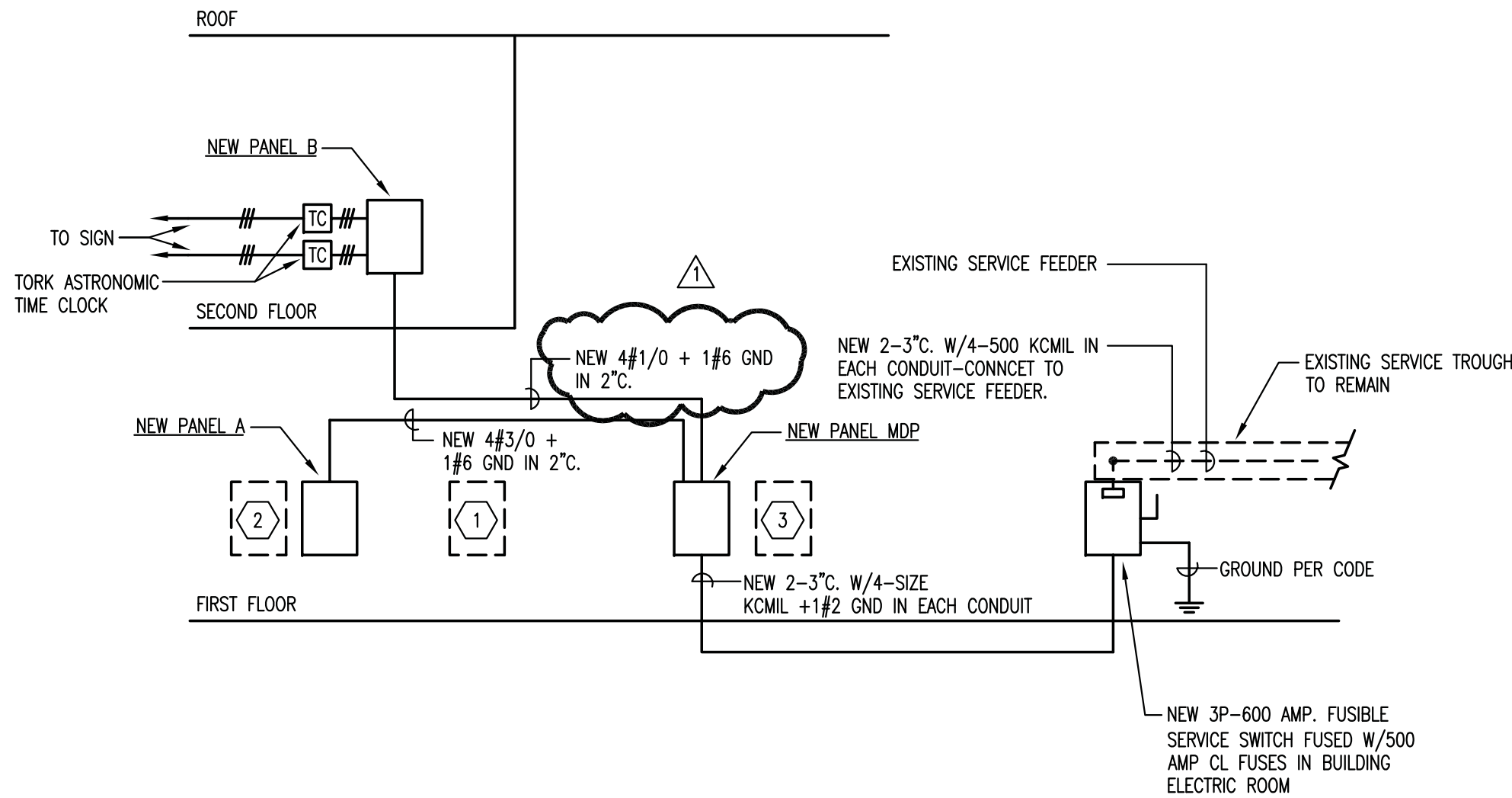
PANELBOARD SCHEDULE																	
PANEL: B (NEW)		LOCATION: PROJECTION BOOTH				FEEDER: SEE RISER				MAINS: 100A MLO			A.I.C.: 65K				
VOLTAGE: 120/208		PHASE: 3		WIRE: 4		BUSSING: COPPER		FED FROM: MDP			MOUNTING: SURFACE						
DESCRIPTION	WATTAGE			BRANCH BREAKER SIZE	OKT. NO.	ABC	OKT. NO.	BRANCH BREAKER SIZE	WATTAGE			DESCRIPTION					
	AØ	BØ	CØ						AØ	BØ	CØ						
RECEPTACLES OFFICE	360			1/20*	1		2	1/20	1000			RECEPTABLES STORAGE					
LIGHTING		1200		1/20	3		4	1/20		1000		RECEPTACLE					
FIRE ALARM CONTROL PANEL			1000	1/20	5		6	1/20			1000	RECEPTACLE					
RTU RECEPTABLES	600			1/20*	7		8	1/20	200			RTU RECEPTACLE					
ASILE LIGHTING		200		1/20	9		10	1/20		1200		SPARE					
SPARE			1200	1/20	11		12	1/20			1200	SPARE					
SPARE	1200			1/20	13		14	1/20	1200			SPARE					
SPARE		1200		1/20	15		16	1/20		1200		SPARE					
SPARE			1200	1/20	17		18	1/20		1200		SPARE					
SPACE WITH PROVISIONS	600			1/-	19		20	1/-	600			SPACE WITH PROVISIONS					
SPACE WITH PROVISIONS		600		1/-	21		22	1/-		600		SPACE WITH PROVISIONS					
SPACE WITH PROVISIONS			600	1/-	23		24	1/-			600	SPACE WITH PROVISIONS					
SPACE WITH PROVISIONS	-			1/-	25		26	1/-	-			SPACE WITH PROVISIONS					
SPACE WITH PROVISIONS		-		1/-	27		28	1/-		-		SPACE WITH PROVISIONS					
SPACE WITH PROVISIONS			-	1/-	29		30	1/-		-		SPACE WITH PROVISIONS					
SUBTOTALS:		2760	3200	4000	SUBTOTALS:										3000	4000	4000
*A" PHASE TOTAL: 5,700				*B" PHASE TOTAL: 7,200				*C" PHASE TOTAL: 8,000				* PROVIDE C/B GUARD					
TOTAL LOAD: 20,960		WATTS AT 208V X/3			VOLTS, 3 PHASE, 4 WIRE 58 AMPS			-									
HIGH PHASE: 8,000		WATTS AT 120			VOLTS, 1 PHASE 67 AMPS			-									

PANELBOARD SCHEDULE																							
PANEL: MDP (NEW)				LOCATION: STORAGE				FEEDER: SEE RISER				MAINS: 800A MCB				A.I.C.: 100K							
VOLTAGE: 120/208				PHASE: 3				WIRE: 4				BUSSING: COPPER				FED FROM: TRANSFORMER				MOUNTING: SURFACE			
DESCRIPTION		WATTAGE		BRANCH BREAKER SIZE	OKT. NO.	ABC	OKT. NO.	BRANCH BREAKER SIZE	WATTAGE		DESCRIPTION												
AØ	BØ	CØ	AØ						BØ	CØ													
RTU-1	14400			3	1		2	3	10200		RTU-2												
		14400			(3)		(4)	*	10200														
			14400	150	(5)		(6)	110		10200													
RTU-3	3720			3	7		8	3	2520		RTU-4												
		3720			(9)		(10)	*	2520														
			3720	40	(11)		(12)	30		2520													
PANEL "A"	15730			3	13		14	3	5760		PANEL "B"												
		13080			(15)		(16)																
			14100	200	(17)		(18)	100		8000													
SPARE	6000			3	19		20	3	-		SPACE WITH PROVISIONS												
		6000			(21)		(22)		-	-													
			6000	100	(23)		(24)		-	-													
SUBTOTALS: 39850 38220 38229				SUBTOTALS: 18480 19920 20720																			
*A" PHASE TOTAL: 58,330				*B" PHASE TOTAL: 58,140				*C" PHASE TOTAL: 58,940				* HACR TYPE C/B											
TOTAL LOAD: 175,310				WATTS AT 208V X/3				VOLTS, 3 PHASE, 4 WIRE 490 AMPS				-											
HIGH PHASE: 58,940				WATTS AT 120				VOLTS, 1 PHASE 491 AMPS				-											

MECHANICAL/ELECTRICAL COORDINATION REQUIREMENTS

MECHANICAL CONTRACTOR WITHIN 20 DAYS OF RECEIPT OF CONTRACT TO PROVIDE TO THE ELECTRICAL CONTRACTOR A COMPLETE SET OF MECHANICAL EQUIPMENT SHOP DRAWINGS FOR ALL MECHANICAL EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS OR POWER. SHOP DRAWINGS SHALL SHOW ALL REQUIRED ELECTRICAL CONNECTIONS, MINIMUM CIRCUIT AMPS, WIRE SIZES, OVER CURRENT PROTECTION, CONNECTION TYPES AND ANY OTHER INFORMATION REQUIRED FOR THE PROPER EQUIPMENT INSTALLATION AND OPERATION.

MECHANICAL AND ELECTRICAL CONTRACTORS SHALL COORDINATE THIS INFORMATION AND PREPARE A CONNECTION SCHEDULE FOR SUBMISSION AND REVIEW BY ENGINEER BEFORE PROCEEDING WITH WORK.



POWER RISER DIAGRAM
NOT TO SCALE

RISER DIAGRAM NOTES

- EXISTING PANELS IN THE FOLLOWING LOCATIONS TO BE REMOVED COMPLETE:

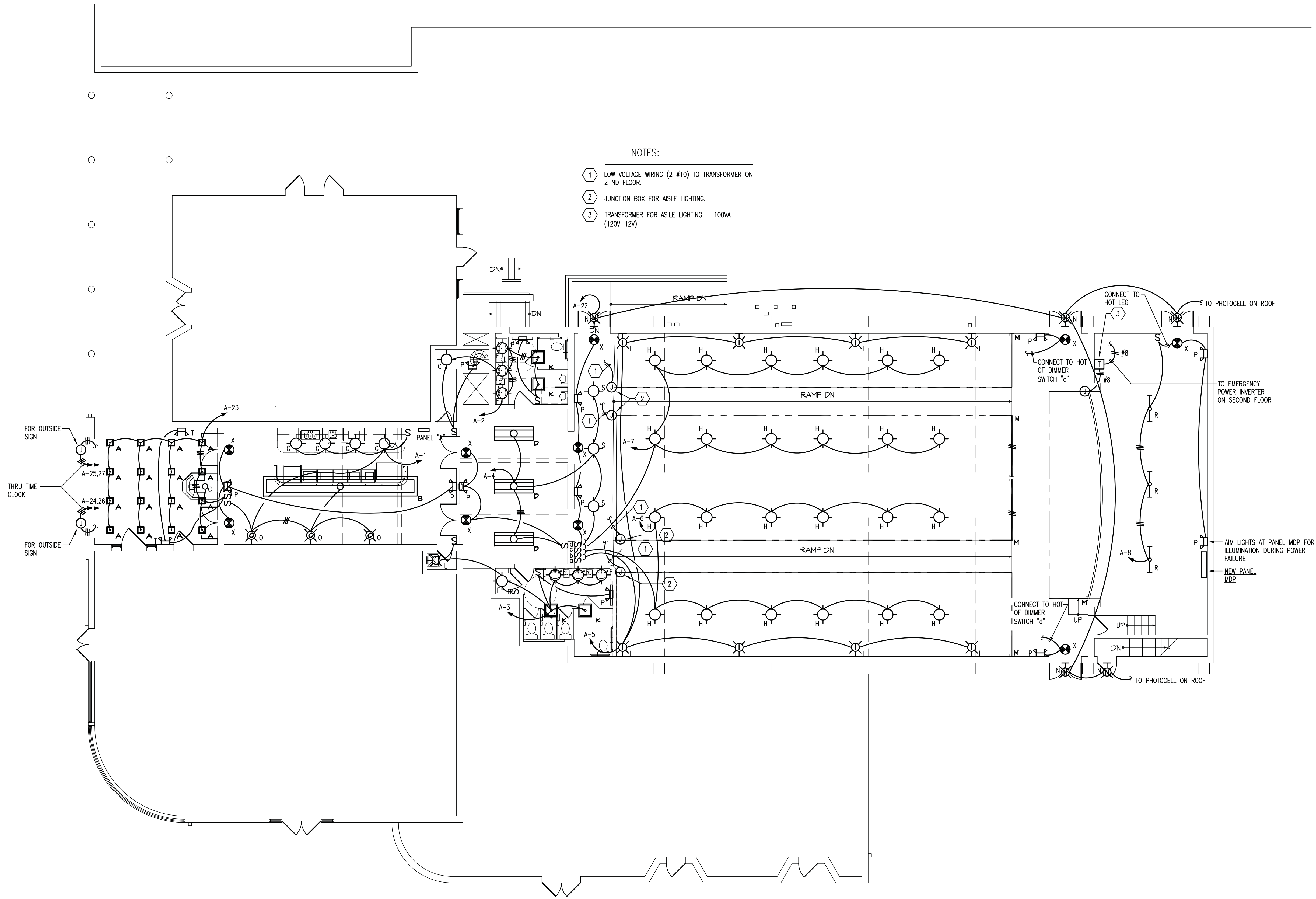
- HALL
- LOBBY
- BEHIND STAGE IN STORAGE

LIGHTING FIXTURE SCHEDULE						
SYMBOL	ITEM NO.	MANUFACTURER	CATALOG NO.	LAMPS	MOUNTING	REMARKS
	A	SELECTED AND PURCHASED BY OWNER	-	-	-	MODIFY EXISTING RECESSED FIXTURE W/ NEW DROPPED DIFFUSER
	B	SELECTED AND PURCHASED BY OWNER	-	-	-	CUSTOM FIXTURE
	C	WILLIAMS	PH4C11-226-EB-024Q/3-MWT-120	2-26W, 2 PIN COMP. FLOUR.	SURFACE	SURFACE MOUNTED FLUORESCENT FIXTURE
	D	SELECTED AND PURCHASED BY OWNER	-	-	-	CUSTOM FIXTURE W/ 85W HIGH OUTPUT WARM WHITE, SINGLE T-12 FLUORESCENT LAMP 3000K COLOR (DIA. 1 1/2" LENGTH 72")
	E	(NOT USED)	-	-	-	-
	F	WILLIAMS	PH60-2180-C244-2-MWT-BH-120	2-18W, 2 PIN COMP. FLOUR.	RECESSED	FLUORESCENT OPEN DOWNLIGHT
	G	WILLIAMS	PH75-242T/EB-024Q/4-EB-120 BH	2-42W, 4 PIN COMP. FLOUR.	RECESSED	FLUORESCENT DOWNLIGHT
	H	SELECTED AND PURCHASED BY OWNER	-	-	-	150W LIGHTS ON SUSPENDED METAL TRACK
	I	SELECTED AND PURCHASED BY OWNER	-	-	-	CUSTOM SCONCE W/ FLUORESCENT LAMP
	K	WILLIAMS	U3F-022-232U-33W-EB2-120	2-U/BENT 32W T-8	RECESSED	RECESSED 2X2 FLUORESCENT FIXTURE
	L	-	-	-	-	EXISTING WALL MOUNTED FIXTURE TO REMAIN
	M	CALIFORNIA ACCENT LIGHTING	AIL 1100/12" OC/LED-Y/CL	LED-Y	ON FLOOR	FLOOR MOUNTED EMERGENCY STRIP LIGHTING ALONG THEATER AISLES INVERTER: EXITRONIX #PWR6-1 (FOR EMERGENCY BATTERY OPERATION)
	N	LUMINAIRE	SWP-610-EMB-CAB-PC-120	2-26W, PL35K FLOUR.	WALL	EXTERIOR EGRESS-MOUNT OVER DOOR-EM BATTERY WITH PHOTOCCELL-WET LOCATION
	O	SELECTED AND PURCHASED BY OWNER	-	-	-	CUSTOM FLUORESCENT LIGHT FIXTURE
	P	WILLIAMS	EMER-WHT-SDT	LAMPS FURNISHED	WALL	EMERGENCY BATTERY PACK UNIT WITH TWO INTEGRAL HEADS
	R	WILLIAMS	81-4-232-EB2-120	2-32W T-8 FLOUR.	CEILING	STORAGE AREA & SECOND FLOOR
	S	WILLIAMS	A45-100-A19IF/MED-MWT-BH-120	2-32W T-8 FLOUR.	RECESSED	FOYER
	T	WILLIAMS	EMER-WET-WG	LAMPS FURNISHED	WALL	EMERGENCY BATTERY PACK UNIT WITH TWO INTEGRAL HEADS - WET LOCATION

HURST & ASSOCIATES
CONSULTING ENGINEERS
308 HILLWOOD AVE.
FALLS CHURCH, VA. 22046
(703) 534-7872

NOTE:
THE CONSTRUCTION OF THIS PROJECT REQUIRES THE CONTRACTOR TO COORDINATE WORK SHOWN ON THIS DRAWING WITH THAT OF ALL OTHER TRADES. IN ADDITION ALL PIPING, CONDUITS, DUCTWORK, ETC., ARE TO BE INSTALLED WITHIN THE JOINTS / GROUDES AND TO MAINTAIN THE FINISH REQUIRED. CLARIFICATIONS: THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CHANGES RESULTING FROM CONFLICTS WITH OTHER TRADES AND WORK. IN THE EVENT OF ANY CONFLICTS THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER OR THEIR REPRESENTATIVE IN WRITING FOR CLARIFICATION BEFORE PROCEEDING.

REVISIONS:
DESIGN DEVELOP. 04.18.05
ISSUE FOR PERMIT 01.22.07
PERMIT COMMENTS



- NOTES:
- 1 LOW VOLTAGE WIRING (2 #10) TO TRANSFORMER ON 2 ND FLOOR.
 - 2 JUNCTION BOX FOR AISLE LIGHTING.
 - 3 TRANSFORMER FOR AISLE LIGHTING - 100VA (120V-12V).

FIRST FLOOR PLAN - LIGHTING
SCALE: 1/8"=1'-0"

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM DULY LICENSED PROFESSIONAL ENGINEER UNDER LAWS OF THE STATE OF MARYLAND, LICENSE NO. 22541. EXPIRATION DATE: 03/01/2008.

HURST & ASSOCIATES
CONSULTING ENGINEERS
308 HILLWOOD AVE.
FALLS CHURCH, VA. 22046
(703) 534-7872

NOTE:
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REVISIONS:	
DESIGN DEVELOP.	04.13.05
ISSUE FOR PERMIT	01.22.07
Δ PERMIT COMMENTS	11.03.08
BID SET	04.08.09

SEAL:

DRAWN BY:

CHECKED BY:

SCALE:
1/8" = 1'-0"

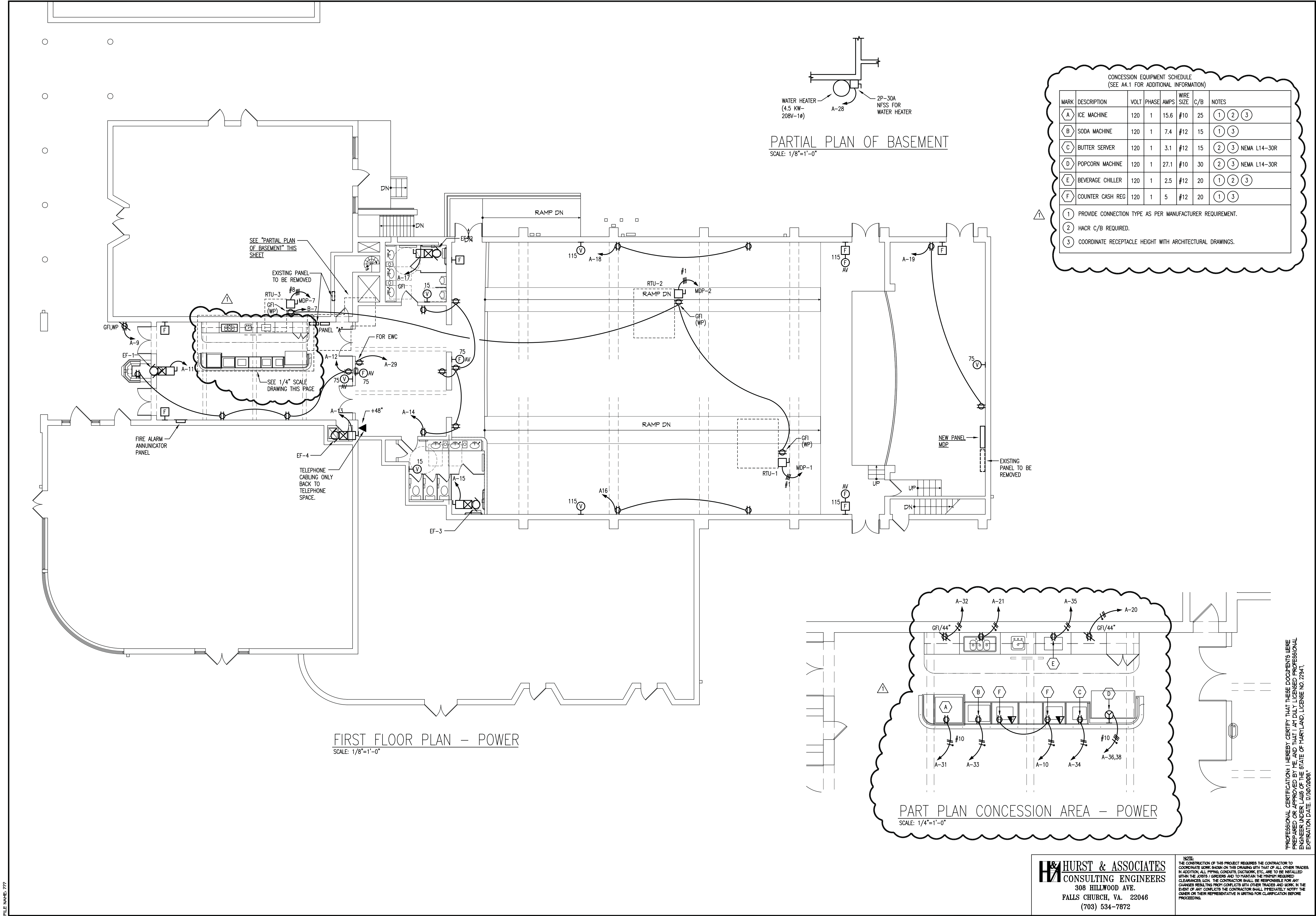
DATE:
08/03/05

PROJECT NO.
03.0299

DRAWING NO.

E4.1

FILE NAME: 777



GTM

GT MARCHITECTS

7735 OLD GEORGETOWN ROAD
SUITE 700
BETHESDA, MD 20814
(240)333-2000
(240)333-2001 FAX

25 CRESCENT ROAD
GREENBELT, MD 20710

ELECTRICAL
FIRST FLOOR PLAN

CITY OF GREENBELT
GREENBELT THEATER
RENOVATION

REVISIONS:
DESIGN DEVELOP. 04.18.05
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PERMIT COMMENTS 11.03.08
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SEAL:

DRAWN BY:
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SCALE:
1/8" = 1'-0"
DATE:
08/03/05
PROJECT NO.
03.0249
DRAWING NO.
E3.1

HURST & Associates Project No. 05-30

GENERAL NOTES

DESIGN LOADS

THE FOLLOWING DESIGN LIVE LOADS HAVE BEEN USED, AS SPECIFIED IN INTERNATIONAL BUILDING CODE 2000, CHAPTER 16.

ROOF LIVE LOAD (SECTION 1607.11.2) OR MINIMUM D.C. REQUIREMENT, WHICHEVER CONTROLS.....30 LBS./SQ. FT.

ROOF SNOW LOAD (SECTION 1608). BASED ON ASCE 7-98.
Pg = 30.0 PSF
Ce = 1.1
Is = 1.1
Ct = 1.0
REQUIRED Pf = 0.7x1x1.1x1.1x30 = 21 PSF.

ADDITIONAL LOADS DUE TO SNOW DRIFTS AS PER PROVISIONS OF ASCE 7-98 HAVE BEEN CONSIDERED WHERE APPLICABLE.

WIND LOAD (SECTION 1609).
BASIC WIND SPEED.....90 MPH
WIND DIRECTIONALITY FACTOR.....0.85
WIND LOAD IMPORTANCE FACTOR.....1.10
WIND EXPOSURE CATEGORY.....EXPOSURE B.

LATERAL LOADS AGAINST BUILDING WALLS DUE TO EARTH PRESSURE ARE ASSUMED TO BE 45 LBS PER SQ. FT. PER FT. DEPTH.

STRUCTURAL STEEL

STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS". ALL WIDE FLANGE BEAMS & CHANNELS SHALL CONFORM TO ASTM A572 OR A992, GRADE 50 (FY = 50 KSI). STEEL PIPE SHALL CONFORM TO ASTM A53, GRADE B. STEEL TUBE SHALL CONFORM TO ASTM A500, GRADE B. ALL OTHER STEEL SHALL CONFORM TO ASTM A36 (FY = 36 KSI).

BOLTED, WELDED AND COMBINATION CONNECTIONS SHALL BE DETAILED IN ACCORDANCE WITH "FRAMED BEAM CONNECTIONS" USING TWO WEB ANGLES AS SHOWN IN THE LATEST EDITION OF THE AISC "MANUAL OF STEEL CONSTRUCTION" (ALLOWABLE STRESS DESIGN).

SEATED CONNECTIONS SHALL BE DETAILED IN ACCORDANCE WITH "SEATED BEAM CONNECTIONS" AS SHOWN IN THE LATEST EDITION OF THE AISC "MANUAL OF STEEL CONSTRUCTION", AND MAY BE USED TO CONNECT STEEL JOISTS TO COLUMN FLANGES OR STEEL BEAMS TO GIRDERS AND GIRDERS TO COLUMN. PROVIDE WELDED STABILIZER PLATES OR ANGLES AT TOP OF BEAMS AT ALL SEATED CONNECTIONS.

STEEL CONNECTIONS AT ENDS OF MEMBERS SHALL BE DESIGNED (FOR THE REACTIONS NOTED ON THE DRAWINGS) FOR THE FRACTION OF THE "ALLOWABLE UNIFORM LOAD" AS GIVEN IN THE AISC MANUAL (WcL/2) FOR THE MEMBER, THE SPAN AND GRADE OF STEEL.

SHOP DRAWINGS

THE GENERAL CONTRACTOR (OR CONSTRUCTION MANAGER) SHALL SUBMIT SHOP DRAWINGS FOR ALL STRUCTURAL ELEMENTS SHOWN ON THE CONTRACT DOCUMENTS FOR APPROVAL (ONE REPRODUCIBLE PLUS NOT MORE THAN TWO PRINTS). THE STRUCTURAL ENGINEER WILL NOT BE RESPONSIBLE FOR THE STRUCTURAL CERTIFICATION AND DESIGN OF THE PROJECT IF THE GENERAL CONTRACTOR FAILS TO OBTAIN APPROVAL OF THE SHOP DRAWINGS. THE GENERAL CONTRACTOR SHALL INFORM THE STRUCTURAL ENGINEER IN WRITING CONCERNING DEVIATIONS AND/OR OMISSIONS FROM THE CONTRACT DOCUMENTS AT THE TIME OF SHOP DRAWING SUBMISSION. THE GENERAL CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS AND SHALL MAKE ALL CORRECTIONS HE DEEMS NECESSARY BEFORE SUBMISSION. THE GENERAL CONTRACTOR SHALL STATE ON THE SHOP DRAWINGS THAT CONTRACT DOCUMENT REQUIREMENTS HAVE BEEN MET AND THAT ALL DIMENSIONS, CONDITIONS AND QUANTITIES HAVE BEEN REVIEWED AND VERIFIED AS SHOWN AND/OR CORRECTED ON THE SHOP DRAWINGS.

CLEANING AND PAINTING OF EXPOSED STEEL SURFACES

COMPLETE WELDING AND REPAIRS OF DETERIORATED STEEL ELEMENTS PRIOR TO CLEANING AND PAINTING OPERATION. ENGAGE AN EXPERIENCED APPLICATOR WHO HAS COMPLETED HIGH-PERFORMANCE COATING SYSTEM APPLICATIONS SIMILAR IN MATERIAL AND EXTENT TO THOSE INDICATED.

SURFACE PREPARATION: CLEAN UNGALVANIZED FERROUS-METAL SURFACES THAT HAVE NOT BEEN SHOP COATED; REMOVE OIL, GREASE, DIRT, LOOSE MILL SCALE, AND OTHER FOREIGN SUBSTANCES. CLEAN METAL SURFACES BY AN ABRASIVE BLAST METHOD.

- A. BLAST-CLEAN EXISTING PAINT FROM STEEL SURFACES AS RECOMMENDED BY COATING MANUFACTURER AND ACCORDING TO SSPC-SP 10/NACE NO. 2.
- B. TREAT BARE AND SANDBLASTED OR PICKLED CLEAN METAL WITH A METAL TREATMENT WASH COAT BEFORE PRIMING.

ALLOW SUFFICIENT TIME BETWEEN SUCCESSIVE COATS TO PERMIT PROPER DRYING. DO NOT RECOAT SURFACES UNTIL COATING HAS DRIED TO WHERE IT FEELS FIRM, DOES NOT DEFORM OR FEEL STICKY UNDER MODERATE THUMB PRESSURE, AND APPLICATION OF ANOTHER COAT DOES NOT CAUSE UNDERCOAT TO LIFT OR LOSE ADHESION.

APPLY COATINGS ONLY WHEN TEMPERATURE OF SURFACES TO BE COATED AND SURROUNDING AIR TEMPERATURES ARE BETWEEN 45 AND 95 DEG F. DO NOT APPLY COATINGS IN SNOW, RAIN, FOG, OR MIST; WHEN RELATIVE HUMIDITY EXCEEDS 85 PERCENT; AT TEMPERATURES LESS THAN 5 DEG F ABOVE THE DEW POINT; OR TO DAMP OR WET SURFACES.

ACCEPTABLE MANUFACTURER: BENJAMIN MOORE & CO. (MOORE).

VOC CLASSIFICATION: PROVIDE HIGH-PERFORMANCE COATING MATERIALS, INCLUDING PRIMERS, UNDERCOATS, AND FINISH-COAT MATERIALS, THAT HAVE A VOC CLASSIFICATION OF 450 G/L OR LESS.

FERROUS METAL: PROVIDE THE FOLLOWING FINISH SYSTEMS OVER EXTERIOR FERROUS-METAL SURFACES:

MATT FINISH: ONE FINISH COAT OVER AN INTERMEDIATE COAT AND A PRIMER. FINISH COAT SHALL HAVE A SANDED TEXTURED FINISH.

- A. PRIMER: EPOXY PRIMER APPLIED AT SPREADING RATE RECOMMENDED BY MANUFACTURER.
1) MOORE: M36-00/M37 POLYAMIDE EPOXY CLEAR SEALER/FINISH.
- B. INTERMEDIATE COAT: EPOXY APPLIED AT SPREADING RATE RECOMMENDED BY MANUFACTURER TO ACHIEVE A DRY FILM THICKNESS OF 3.0 TO 8.0 MILS.
1) MOORE: SEMI-GLOSS EPOXY.
- C. TOPCOAT: ALIPHATIC POLYURETHANE ENAMEL APPLIED AT SPREADING RATE RECOMMENDED BY MANUFACTURER TO ACHIEVE A DRY FILM THICKNESS OF 1.5 TO 4.0 MILS.
1) MOORE: M74/M75 ALIPHATIC ACRYLIC URETHANE GLOSS WITH SANDED FINISH.

LATERAL BRACING OF STRUCTURAL ELEMENTS

PROVIDE ADEQUATE BRACING AND SHORING FOR BASEMENT, RETAINING AND PIT WALLS. BRACE BASEMENT AND PIT WALLS UNTIL SUPPORTING FLOORS ABOVE ARE IN PLACE AND HAVE ATTAINED DESIGN STRENGTH. DO NOT BACKFILL WALLS UNTIL AFTER FLOORS AT THE TOP AND BASE OF THE WALLS ARE IN PLACE. WHERE BACKFILL IS REQUIRED ON BOTH SIDES OF A WALL, BACKFILL BOTH SIDES SIMULTANEOUSLY WITH THE GRADE DIFFERENCE NOT TO EXCEED 2'-0" AT ANY TIME.

LATERALLY BRACE BUILDING WALLS IN AN APPROVED MANNER AT A MAXIMUM HORIZONTAL SPACING OF 8'-0" O.C. (6'-0" O.C.) BRACING SHALL REMAIN IN PLACE UNTIL ROOF OR FLOOR MEMBERS HAVE BEEN SECURELY ANCHORED TO THE WALL.

PROVIDE ADEQUATE BRACING AND GUY-WIRING FOR STEEL FRAME AND MEMBERS DURING STEEL ERECTION AND CONCRETE WORK ON DECK. STEEL FRAME SHALL BE PLUMB WITHIN AISC TOLERANCES AND PROJECT SPECIFICATION REQUIREMENTS.

WALLS SUPPORTED BY OR CONNECTED TO STEEL FLOOR MEMBERS SHALL NOT BE PLACED UNTIL PERMANENT ANCHORAGE AND BRACING SYSTEMS HAVE BEEN INSTALLED, AND UNTIL CONCRETE WORK FOR FLOOR DECKS IS COMPLETED. WALLS AND PARAPETS SUPPORTED BY OR CONNECTED TO STEEL ROOF BEAMS SHALL NOT BE PLACED UNTIL ROOF DECK INSTALLATION IS COMPLETE.

OPENINGS AND PIPE SLEEVES

SIZE AND LOCATION OF ALL OPENINGS SHALL BE COORDINATED WITH ARCHITECTURAL, ELECTRICAL, MECHANICAL AND PLUMBING DRAWINGS. FORM OPENINGS AND PROVIDE PIPE SLEEVES WHEN POURING CONCRETE. HOLES LARGER THAN 2" IN DIAMETER SHALL NOT BE CUT INTO SLABS WITHOUT PERMISSION OF THE STRUCTURAL ENGINEER. ARRANGE REINFORCING AROUND OPENINGS AS SHOWN IN TYPICAL DETAILS. EMBEDDED PIPES OR CONDUITS SHALL BE SPACED AT LEAST THREE DIAMETERS ON CENTERS, UNLESS OTHERWISE NOTED. EXCESSIVE CROSSING OVER OF CONDUITS IN SLABS WILL NOT BE PERMITTED. PIPE SLEEVES SHALL NOT BE SPACED CLOSER THAN 8" CLEAR FROM ANY COLUMN UNLESS NOTED ON DRAWINGS. PLACE SLAB BARS TO CLEAR SLEEVES AND MAINTAIN 1 1/2" CLEAR SPACING BETWEEN BARS, WHERE SLEEVES ARE CLOSELY SPACED IN GROUP, THE GROUP SHALL BE TREATED AS AN OPENING AND REINFORCED ACCORDINGLY. WHERE FLOORS ARE PENETRATED BY OPENINGS, SEAL THE OPENINGS TO MAINTAIN THE INTEGRITY OF FIRE RATING.

REINFORCING STEEL

REINFORCING BARS SHALL BE DEFORMED BILLET STEEL CONFORMING TO ASTM A615, GRADE 60. ALL WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185. REINFORCING BAR MATS SHALL ALSO CONFORM TO ASTM A184. BARS SHALL BE BRANDED BY THE MANUFACTURER WITH BAR SIZE AND GRADE OF STEEL AND CERTIFIED MILL REPORTS SHALL BE SUBMITTED FOR RECORD. REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH THE ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES", LATEST EDITION.

PROVIDE CORNER BARS AT JUNCTIONS OF CONCRETE WALLS, GRADE BEAMS AND WALL FOOTINGS AND LAP WITH WALL REINFORCING AS SHOWN IN TYPICAL DETAILS.SIZE AND SPACING OF CORNER BARS TO BE SAME AS HORIZONTAL WALL REINFORCING, UNLESS SHOWN OTHERWISE. WHERE CONTINUOUS BARS ARE CALLED FOR, THEY SHALL RUN CONTINUOUSLY AROUND CORNERS AND LAPPED AS NECESSARY.PROVIDE STANDARD HOOKS AT DISCONTINUOUS ENDS. TENSION AND COMPRESSION LAP SPLICES SHALL NOT BE LESS THAN THE SPLICE LENGTHS AS GIVEN IN ACI-318. GENERALLY LAP TOP BARS AT MID SPAN AND BOTTOM BARS AT SUPPORTS. PROVIDE PLACING ACCESSORIES IN ACCORDANCE WITH ACI RECOMMENDATIONS.

MISCELLANEOUS STEEL

MISCELLANEOUS STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS", AND SHALL BE ASTM A36. BOLTS SHALL BE HIGH STRENGTH 3/4" DIAMETER CONFORMING TO ASTM A325. WELDING SHALL BE DONE ONLY BY CERTIFIED WELDERS. WELD IN ACCORDANCE WITH THE AWS "STANDARD CODE FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION". STRUCTURAL STEEL SURFACES CAST INTO CONCRETE SHALL BE UNPAINTED.

SUBMIT STRUCTURAL STEEL SHOP DRAWINGS SHOWING COMPLETE DIMENSIONS AND DETAILS FOR APPROVAL PRIOR TO FABRICATION. THE STRUCTURAL STEEL SUBCONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING, VERIFICATION, AND FOR COORDINATION OF DIMENSIONS AND DETAILS WITH THE STRUCTURAL AND OTHER PORTIONS OF THE CONTRACT DRAWINGS. THE STRUCTURAL CONTRACT DRAWINGS SHALL NOT BE REPRODUCED AS SHOP DRAWINGS UNLESS THE STRUCTURAL ENGINEER'S APPROVAL IS OBTAINED IN WRITING.

HARDWARE ATTACHMENT

PROVIDE COLUMN CAPS, WHERE BEAMS FRAME TO COLUMNS, SUCH AS CC/ECC BY SIMPSON OR APPROVED EQUAL. CAPS SHALL HAVE ENOUGH LENGTH TO PROVIDE A MINIMUM OF 4" OF BEARING LENGTH FOR EACH BEAM.

HEADERS WILL BE FASTENED TO POSTS WITH METAL CAPS SUCH AS AC AND ACE OR HH BY SIMPSON OR APPROVED EQUAL. ALTERNATELY WOOD POSTS MAYBE INSTALLED TIGHT UNDER WOOD BEAMS AND CUT SO THAT THE BEAM BEARING IS UNIFORM ON THE POST AND METAL CAP ELIMINATED.

ROOF TRUSSES SHALL HAVE HURRICANE TIES SUCH AS H2.5 BY SIMPSON OR APPROVED EQUAL. GIRDER TRUSSES SHALL HAVE TWO TIES AT EACH END.

PROVIDE TWO METAL STRAPS BETWEEN POST AND BEAM/GIRDER TRUSSES AT THE TOP FLOOR. USE LTS18 OR TS18 BY SIMPSON OR APPROVED EQUAL.



G T MARCHITECTS

7735 OLD GEORGETOWN ROAD
SUITE 700
BETHESDA, MD 20814
(240)333-2000
(240)333-2001 FAX

129 CENTERWAY ROAD
GREENBELT, MD 20770

ROOF PLAN

CITY OF GREENBELT

GREENBELT THEATER
RENOVATION

REVISIONS:

SEAL:

DRAWN BY:

KS

CHECKED BY:

MRC

SCALE:

AS NOTED

DATE:

5-24-06

PROJECT NO.

03.0299

DRAWING NO.

S6.02